PyMISP Documentation

Release main

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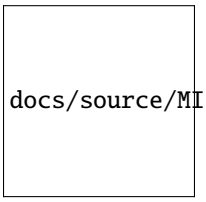
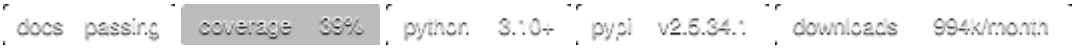


CHAPTER

ONE

PYMISP - PYTHON LIBRARY TO ACCESS MISP



PyMISP is a Python library to access MISP platforms via their REST API.

PyMISP allows you to fetch events, add or update events/attributes, add or update samples or search for attributes.

1.1 Install from pip

It is strongly recommended to use a virtual environment

If you want to know more about virtual environments, python has you covered

Only basic dependencies:

```
pip3 install pymisp
```

And there are a few optional dependencies:

- fileobjects: to create PE/ELF/Mach-o objects
- openioc: to import files in OpenIOC format (not really maintained)
- virustotal: to query VirusTotal and generate the appropriate objects
- docs: to generate te documentation
- pdfexport: to generate PDF reports out of MISP events
- url: to generate URL objects out of URLs with Pyfaup
- email: to generate MISP Email objects
- brotli: to use the brotli compression when interacting with a MISP instance

Example:

```
pip3 install pymisp[virustotal,email]
```

1.2 Install the latest version from repo from development purposes

Note: poetry is required; e.g., "pip3 install poetry"

```
git clone https://github.com/MISP/PyMISP.git && cd PyMISP
git submodule update --init
poetry install -E fileobjects -E openioc -E virustotal -E docs -E pdfexport -E email
```

1.2.1 Running the tests

```
poetry run pytest --cov=pymisp tests/test_*.py
```

If you have a MISP instance to test against, you can also run the live ones:

Note: You need to update the key in `tests/testlive_comprehensive.py` to the automation key of your admin account.

```
poetry run pytest --cov=pymisp tests/testlive_comprehensive.py
```

1.3 Samples and how to use PyMISP

Various examples and samples scripts are in the *examples/* directory.

In the examples directory, you will need to change the keys.py.sample to enter your MISP url and API key.

```
cd examples
cp keys.py.sample keys.py
vim keys.py
```

The API key of MISP is available in the Automation section of the MISP web interface.

To test if your URL and API keys are correct, you can test with examples/last.py to fetch the events published in the last x amount of time (supported time indicators: days (d), hours (h) and minutes (m)). last.py

```
cd examples
python3 last.py -l 10h # 10 hours
python3 last.py -l 5d  #  5 days
python3 last.py -l 45m # 45 minutes
```

1.4 Debugging

You have two options here:

1. Pass `debug=True` to `PyMISP` and it will enable logging.DEBUG to stderr on the whole module
2. Use the python logging module directly:

```
import logging
logger = logging.getLogger('pymisp')

# Configure it as you wish, for example, enable DEBUG mode:
logger.setLevel(logging.DEBUG)
```

Or if you want to write the debug output to a file instead of stderr:

```
import pymisp
import logging

logger = logging.getLogger('pymisp')
logging.basicConfig(level=logging.DEBUG, filename="debug.log", filemode='w',␣
↪format=pymisp.FORMAT)
```

1.5 Test cases

1. The content of `mispevent.py` is tested on every commit
2. The test cases that require a running MISP instance can be run the following way:

```
# From poetry

pytest --cov=pymisp tests/test_*.py tests/testlive_comprehensive.py:TestComprehensive.
↪[test_name]
```

1.6 Documentation

The documentation is available here.

1.6.1 Jupyter notebook

A series of Jupyter notebooks for PyMISP tutorial are available in the repository.

1.7 Everything is a Mutable Mapping

... or at least everything that can be imported/exported from/to a json blob

`AbstractMISP` is the master class, and inherits from `collections.MutableMapping` which means the class can be represented as a python dictionary.

The abstraction assumes every property that should not be seen in the dictionary is prepended with a `_`, or its name is added to the private list `__not_jsonable` (accessible through `update_not_jsonable` and `set_not_jsonable`.

This master class has helpers that make it easy to load, and export to, and from, a json string.

`MISPEvent`, `MISPAttribute`, `MISPObjectReference`, `MISPObjectAttribute`, and `MISPObject` are subclasses of AbstractMISP, which mean that they can be handled as python dictionaries.

1.8 MISP Objects

Creating a new MISP object generator should be done using a pre-defined template and inherit `AbstractMISPObjectGenerator`.

Your new MISPObject generator must generate attributes and add them as class properties using `add_attribute`.

When the object is sent to MISP, all the class properties will be exported to the JSON export.

1.9 Installing PyMISP on a machine with no internet access

This is done using poetry and you need to have this repository cloned on your machine. The commands below have to be run from inside the cloned directory.

1. From a machine with access to the internet, get the dependencies:

```
mkdir offline
poetry export --all-extras  > offline/requirements.txt
poetry run pip download -r offline/requirements.txt -d offline/packages/
```

2. Prepare the PyMISP Package

```
poetry build
mv dist/*.whl offline/packages/
```

3. Copy the content of `offline/packages/` to the machine with no internet access.
4. Install the packages:

```
python -m pip install --no-index --no-deps packages/*.whl
```

CHAPTER

TWO

LICENSE

PyMISP is distributed under an *open source license*. A simplified 2-BSD license.

CHAPTER

THREE

PYMISP - CLASSES

class pymisp.**AbstractMISP**(*force_timestamps=False*)

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

class pymisp.**Analysis**(**values*)

class pymisp.**Distribution**(**values*)

class pymisp.**ExpandedPyMISP**(**args*, ***kwargs*)

exception pymisp.**InvalidMISPObject**(*message*)

Exception raised when an object doesn't respect the constraints in the definition

class pymisp.**MISPAttribute**(*describe_types=None*, *strict=False*)

add_galaxy(*galaxy=None*, ***kwargs*)

Add a galaxy to the Attribute, either by passing a MISPGalaxy or a dictionary

Return type
MISPGalaxy

add_proposal(*shadow_attribute=None*, ***kwargs*)

Alias for add_shadow_attribute

Return type
MISPShadowAttribute

add_shadow_attribute(*shadow_attribute=None*, ***kwargs*)

Add a shadow attribute to the attribute (by name or a MISPShadowAttribute object)

Return type
MISPShadowAttribute

add_sighting(*sighting=None*, ***kwargs*)

Add a sighting to the attribute (by name or a MISPSighting object)

Return type
MISPSighting

delete()

Mark the attribute as deleted (soft delete)

Return type
None

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

property galaxies: list[*MISPGalaxy*]

Returns a list of galaxies associated to this Attribute

hash_values(*algorithm='sha512'*)

Compute the hash of every value for fast lookups

Return type
list[str]

property known_types: list[str]

Returns a list of all the known MISP attributes types

property malware_binary: BytesIO | None

Returns a BytesIO of the malware, if the attribute has one. Decrypts, unpacks and caches the binary on the first invocation, which may require some time for large attachments (~1s/MB).

property tags: list[*MISPTag*]

Returns a list of tags associated to this Attribute

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

class pymisp.**MISPCorrelationExclusion**(*force_timestamps=False*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPDecayingModel**(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPEvent**(*describe_types=None*, *strict_validation=False*, *force_timestamps=False*, ***kwargs*)

add_attribute(*type*, *value*, ***kwargs*)

Add an attribute. type and value are required but you can pass all other parameters supported by MISPAttribute

Return type
MISPAttribute | list[*MISPAttribute*]

add_attribute_tag(*tag*, *attribute_identifier*)

Add a tag to an existing attribute. Raise an Exception if the attribute doesn't exist.

Parameters

- **tag** (*MISPTag* | str) – Tag name as a string, MISPTag instance, or dictionary
- **attribute_identifier** (str) – can be an ID, UUID, or the value.

Return type
list[*MISPAttribute*]

add_cryprographic_key(*parent_type*, *key_data*, *type*, *uuid*, *fingerprint*, *timestamp*, ***kwargs*)

Add a Cryptographic Key. parent_type, key_data, type, uuid, fingerprint, timestamp are required but you can pass all other parameters supported by MISPEventReport

Return type
MISPCryptographicKey

add_event_report(*name*, *content*, ***kwargs*)

Add an event report. name and value are requred but you can pass all other parameters supported by MISPEventReport

Return type
MISPEventReport

add_galaxy(*galaxy=None*, ***kwargs*)

Add a galaxy and sub-clusters into an event, either by passing a MISPGalaxy or a dictionary. Supports all other parameters supported by MISPGalaxy

Return type
MISPGalaxy

add_object(*obj=None*, ***kwargs*)

Add an object to the Event, either by passing a MISPObject, or a dictionary

Return type
MISPObject

add_proposal(*shadow_attribute=None*, ***kwargs*)

Alias for add_shadow_attribute

Return type
MISPShadowAttribute

add_shadow_attribute(*shadow_attribute=None*, ***kwargs*)

Add a tag to the attribute (by name or a MISPTag object)

Return type
MISPShadowAttribute

delete_attribute(*attribute_id*)

Delete an attribute

Parameters
attribute_id (str) – ID or UUID

Return type
None

delete_object(*object_id*)

Delete an object

Parameters
object_id (str) – ID or UUID

Return type
None

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

get_attribute_by_id(*attribute_id*)

Get an attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking attribute

Return type
MISPAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking attribute

Return type
MISPAttribute

get_attribute_tag(*attribute_identifier*)

Return the tags associated to an attribute or an object attribute.

Parameters
attribute_identifier (str) – can be an ID, UUID, or the value.

Return type
list[*MISPTag*]

get_object_by_id(*object_id*)

Get an object by ID

Parameters
object_id (str | int) – the ID is the one set by the server when creating the new object

Return type
MISPObject

get_object_by_uuid(*object_uuid*)

Get an object by UUID

Parameters
object_uuid (str) – the UUID is set by the server when creating the new object

Return type
MISPObject

get_objects_by_name(*object_name*)

Get objects by name

Parameters
object_name (str) – name is set by the server when creating the new object

Return type
list[*MISPObject*]

load(*json_event*, *validate=False*, *metadata_only=False*)

Load a JSON dump from a pseudo file or a JSON string

Return type
None

load_file(*event_path*, *validate=False*, *metadata_only=False*)

Load a JSON dump from a file on the disk

Return type
None

publish()

Mark the attribute as published

Return type
None

set_date(*d=None*, *ignore_invalid=False*)

Set a date for the event

Parameters

- **d** (str | int | float | datetime | date | None) – String, datetime, or date object
- **ignore_invalid** (bool) – if True, assigns current date if d is not an expected type

Return type
None

property tags: list[*MISPTag*]

Returns a list of tags associated to this Event

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_feed(*valid_distributions=[0, 1, 2, 3, 4, 5]*, *with_meta=False*, *with_distribution=False*, *with_local_tags=True*, *with_event_reports=True*, *with_cryptographic_keys=True*)

Generate a json output for MISP Feed.

Parameters

- **valid_distributions** (list[int]) – only makes sense if the distribution key is set; i.e., the event is exported from a MISP instance.
- **with_distribution** (bool) – exports distribution and Sharing Group info; otherwise all SharingGroup information is discarded (protecting privacy)
- **with_local_tags** (bool) – tag export includes local exportable tags along with global exportable tags
- **with_event_reports** (bool) – include event reports in the returned MISP event
- **with_cryptographic_keys** (bool) – include the associated cryptographic keys in the returned protected MISP event

Return type
dict[str, Any]

unpublish()

Mark the attribute as un-published (set publish flag to false)

Return type
None

class pymisp.MISPEventBlocklist(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPEventDelegation(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPEventReport(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPFeed(*force_timestamps=False*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPGalaxy

Galaxy class, used to view a galaxy and respective clusters

add_galaxy_cluster(***kwargs*)

Add a MISP galaxy cluster into a MISPGalaxy. Supports all other parameters supported by MISPGalaxyCluster

Return type
MISPGalaxyCluster

from_dict(***kwargs*)

Galaxy could be in one of the following formats: {'Galaxy': {}, 'GalaxyCluster': []} {'Galaxy': {'GalaxyCluster': []}}

Return type
None

class pymisp.**MISPGalaxyCluster**

A MISP galaxy cluster, storing respective galaxy elements and relations. Used to view default galaxy clusters and add/edit/update/delete Galaxy 2.0 clusters

Creating a new galaxy cluster can take the following parameters

Parameters

- **value** (*str*) – The value of the galaxy cluster
- **description** (*str*) – The description of the galaxy cluster
- **distribution** (*int*) – The distribution type, one of 0, 1, 2, 3, 4
- **sharing_group_id** (*int, optional*) – The sharing group ID, if distribution is set to 4
- **authors** (*list[str], optional*) – A list of authors of the galaxy cluster
- **cluster_elements** (*list[MISPGalaxyClusterElement], optional*) – List of MISPGalaxyClusterElement
- **cluster_relations** (*list[MISPGalaxyClusterRelation], optional*) – List of MISPGalaxyClusterRelation

add_cluster_element(*key*, *value*, ***kwargs*)

Add a cluster relation to a MISPGalaxyCluster, key and value are required

Parameters

- **key** (str) – The key name of the element
- **value** (str) – The value of the element

Return type
MISPGalaxyClusterElement

add_cluster_relation(*referenced_galaxy_cluster_uuid*, *referenced_galaxy_cluster_type*, *galaxy_cluster_uuid=None*, ***kwargs*)

Add a cluster relation to a MISPGalaxyCluster.

Parameters

- **referenced_galaxy_cluster_uuid** (*MISPGalaxyCluster* | str | UUID) – UUID of the related cluster
- **referenced_galaxy_cluster_type** (str) – Relation type
- **galaxy_cluster_uuid** (str | None) – UUID of this cluster, leave blank to use the stored UUID
- **galaxy_cluster_uuid** – uuid, Optional

Return type
MISPGalaxyClusterRelation

property **elements_meta: dict[str, Any]**

Function to return the galaxy cluster elements as a dictionary structure of lists that comes from a MISP-Galaxy within a MISPEvent. Lossy, you lose the element ID

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

parse_meta_as_elements()

Function to parse the meta field into GalaxyClusterElements

Return type
None

class pymisp.**MISPGalaxyClusterElement**(*force_timestamps=False*)

A MISP Galaxy cluster element, providing further info on a cluster

Creating a new galaxy cluster element can take the following parameters

Parameters

- **key** (*str*) – The key/identifier of the element
- **value** (*str*) – The value of the element

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPGalaxyClusterRelation**

A MISP Galaxy cluster relation, linking one cluster to another

Creating a new galaxy cluster can take the following parameters

Parameters

- **galaxy_cluster_uuid** – The UUID of the galaxy the relation links to
- **referenced_galaxy_cluster_type** – The relation type, e.g. dropped-by
- **referenced_galaxy_cluster_uuid** – The UUID of the related galaxy
- **distribution** – The distribution of the relation, one of 0, 1, 2, 3, 4, default 0
- **sharing_group_id** – The sharing group of the relation, only when distribution is 4

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

property tags: list[*MISPTag*]

Returns a list of tags associated to this Attribute

class pymisp.**MISPInbox**(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPLog**(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPNote**(*force_timestamps=False*, ***kwargs*)

from_dict(*contained=False*, ***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPNoticelist**(*force_timestamps=False*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPObject**(*name*, *strict=False*, *standalone=True*, *default_attributes_parameters={}*, *force_timestamps=False*, ***kwargs*)

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: `str` :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: `str` | `int` | `float` | `None` :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.
If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

delete()

Mark the object as deleted (soft delete)

Return type
None

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

class pymisp.MISPObjectAttribute(*definition*, *force_timestamps=False*)

from_dict(*object_relation=''*, *value=''*, ***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

exception pymisp.MISPObjectException(*message*)

A base class for object specific exceptions

class pymisp.MISPObjectReference

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPObjectTemplate(*force_timestamps=False*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPOpinion(*force_timestamps=False*, ***kwargs*)

from_dict(*contained=False*, ***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPOrganisation

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPOrganisationBlocklist(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPRelationship(*force_timestamps=False*, ***kwargs*)

from_dict(*contained=False*, ***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPRole(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPServer(*force_timestamps=False*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

exception pymisp.MISPServerError(*message*)

class pymisp.MISPShadowAttribute

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.MISPSharingGroup

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPSighting**

from_dict(***kwargs*)

Initialize the MISPSighting from a dictionary

Parameters

- **value** – Value of the attribute the sighting is related too. Pushing this object will update the sighting count of each attribute with this value on the instance.
- **uuid** – UUID of the attribute to update
- **id** – ID of the attriute to update
- **source** – Source of the sighting
- **type** – Type of the sighting
- **timestamp** – Timestamp associated to the sighting

Return type
None

class pymisp.**MISPTag**(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPTaxonomy**(*force_timestamps=False*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPUser**(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPUserSetting**(*force_timestamps=False*, ***kwargs*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

class pymisp.**MISPWarninglist**(*force_timestamps=False*)

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

exception pymisp.**NewAttributeError**(*message*)

exception pymisp.**NewEventError**(*message*)

exception pymisp.**NoKey**(*message*)

exception pymisp.**NoURL**(*message*)

class pymisp.**PyMISP**(*url*, *key*, *ssl=True*, *debug=False*, *proxies=None*, *cert=None*, *auth=None*, *tool=''*, *timeout=None*, *http_headers=None*, *https_adapter=None*, *http_auth_header_name='Authorization'*)

Python API for MISP

Parameters

- **url** (str) – URL of the MISP instance you want to connect to
- **key** (str) – API key of the user you want to use
- **ssl** (bool | str) – can be True or False (to check or to not check the validity of the certificate. Or a CA_BUNDLE in case of self signed or other certificate (the concatenation of all the crt of the chain)
- **debug** (bool) – Write all the debug information to stderr
- **proxies** (MutableMapping[str, str] | None) – Proxy dict, as described here: http://docs.python-requests.org/en/master/user/advanced/#proxies
- **cert** (str | tuple[str, str] | None) – Client certificate, as described here: http://docs.python-requests.org/en/master/user/advanced/#client-side-certificates
- **auth** (AuthBase | None) – The auth parameter is passed directly to requests, as described here: http://docs.python-requests.org/en/master/user/authentication/
- **tool** (str) – The software using PyMISP (string), used to set a unique user-agent
- **http_headers** (dict[str, str] | None) – Arbitrary headers to pass to all the requests.
- **https_adapter** (BaseAdapter | None) – Arbitrary HTTPS adapter for the requests session.
- **http_auth_header_name** (str) – The name of the HTTP header to use for the API key. Can be either "Authorization" or "X-MISP-AUTH".
- **timeout** (float | tuple[float, float] | None) – Timeout, as described here: https://requests.readthedocs.io/en/master/user/advanced/#timeouts

accept_attribute_proposal(*proposal*)

Accept a proposal. You cannot modify an existing proposal, only accept/discard

Parameters
proposal (*MISPShadowAttribute* | int | str | UUID) – attribute proposal to accept

Return type
dict[str, Any] | list[dict[str, Any]]

accept_event_delegation(*delegation*, *pythonify=False*)

Accept the delegation of an event

Parameters

- **delegation** (*MISPEventDelegation* | int | str) – event delegation to accept
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | list[dict[str, Any]]

accept_user_registration(*registration*, *organisation=None*, *role=None*, *perm_sync=False*, *perm_publish=False*, *perm_admin=False*, *unsafe_fallback=False*)

Accept a user registration

Parameters

- **registration** (*MISPInbox* | int | str | UUID) – the registration to accept
- **organisation** (*MISPOrganisation* | int | str | UUID | None) – user organization
- **role** (*MISPRole* | int | str | None) – user role
- **perm_sync** (bool) – indicator for sync
- **perm_publish** (bool) – indicator for publish
- **perm_admin** (bool) – indicator for admin
- **unsafe_fallback** (bool) – indicator for unsafe fallback

Return type
dict[str, Any] | list[dict[str, Any]]

add_analyst_data(*analyst_data*, *pythonify=False*)

Add an analyst data to an existing MISP element

Parameters

- **analyst_data** (*MISPNote* | *MISPOpinion* | *MISPRelationship*) – analyst_data to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNote* | *MISPOpinion* | *MISPRelationship*

add_attribute(*event*, *attribute*, *pythonify=False*, *break_on_duplicate=True*)

Add an attribute to an existing MISP event: https://www.misp-project.org/openapi/#tag/Attributes/operation/addAttribute

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to extend
- **attribute** (*MISPAttribute* | Iterable[str]) – attribute or (MISP version 2.4.113+) list of attributes to add. If a list is passed, the pythonified response is a dict with the following structure: {'attributes': [MISPAttribute], 'errors': {errors by attributes}}
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **break_on_duplicate** (bool) – if False, do not fail if the attribute already exists, updates existing attribute instead (timestamp will be always updated)

Return type
dict[str, Any] | *MISPAttribute* | *MISPShadowAttribute*

add_attribute_proposal(*event*, *attribute*, *pythonify=False*)

Propose a new attribute in an event

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to receive new attribute
- **attribute** (*MISPAttribute*) – attribute to propose
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPShadowAttribute*

add_correlation_exclusion(*correlation_exclusion*, *pythonify=False*)

Add a new correlation exclusion

Parameters

- **correlation_exclusion** (*MISPCorrelationExclusion*) – correlation exclusion to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPCorrelationExclusion*

add_event(*event*, *pythonify=False*, *metadata=False*)

Add a new event on a MISP instance: https://www.misp-project.org/openapi/#tag/Events/operation/addEvent

Parameters

- **event** (*MISPEvent*) – event to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **metadata** (bool) – Return just event metadata after successful creating

Return type
dict[str, Any] | *MISPEvent*

add_event_blocklist(*uuids*, *comment=None*, *event_info=None*, *event_orgc=None*)

Add a new event in the blocklist

Parameters

- **uuids** (str | list[str]) – UUIDs
- **comment** (str | None) – comment
- **event_info** (str | None) – event information
- **event_orgc** (str | None) – event organization

Return type
dict[str, Any] | list[dict[str, Any]]

add_event_report(*event*, *event_report*, *pythonify=False*)

Add an event report to an existing MISP event

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to extend
- **event_report** (*MISPEventReport*) – event report to add.
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEventReport*

add_feed(*feed*, *pythonify=False*)

Add a new feed on a MISP instance: https://www.misp-project.org/openapi/#tag/Feeds/operation/addFeed

Parameters

- **feed** (*MISPFeed*) – feed to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

add_galaxy_cluster(*galaxy*, *galaxy_cluster*, *pythonify=False*)

Add a new galaxy cluster to a MISP Galaxy: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/addGalaxyCluster

Parameters

- **galaxy** (*MISPGalaxy* | str | UUID) – A MISPGalaxy (or UUID) where you wish to add the galaxy cluster
- **galaxy_cluster** (*MISPGalaxyCluster*) – A MISPGalaxyCluster you wish to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxyCluster*

add_galaxy_cluster_relation(*galaxy_cluster_relation*)

Add a galaxy cluster relation, cluster relation must include cluster UUIDs in both directions

Parameters
galaxy_cluster_relation (*MISPGalaxyClusterRelation*) – The MISPGalaxyClusterRelation to add

Return type
dict[str, Any] | list[dict[str, Any]]

add_note(*note*, *pythonify=False*)

Add a note to an existing MISP element

Parameters

- **note** (*MISPNote*) – note to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNote*

add_object(*event*, *misp_object*, *pythonify=False*, *break_on_duplicate=False*)

Add a MISP Object to an existing MISP event: https://www.misp-project.org/openapi/#tag/Objects/operation/addObject

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to extend
- **misp_object** (*MISPObject*) – object to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **break_on_duplicate** (bool) – if True, check and reject if this object's attributes match an existing object's attributes; may require much time

Return type
dict[str, Any] | *MISPObject*

add_object_reference(*misp_object_reference*, *pythonify=False*)

Add a reference to an object

Parameters

- **misp_object_reference** (*MISPObjectReference*) – object reference
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPObjectReference*

add_opinion(*opinion*, *pythonify=False*)

Add an opinion to an existing MISP element

Parameters

- **opinion** (*MISPOpinion*) – opinion to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOpinion*

add_org_to_sharing_group(*sharing_group*, *organisation*, *extend=False*)

Add an organisation to a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/addOrganisationToSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – Sharing group's local instance ID, or Sharing group's global UUID
- **organisation** (*MISPOrganisation* | int | str | UUID) – Organisation's local instance ID, or Organisation's global UUID, or Organisation's name as known to the curent instance
- **extend** (bool) – Allow the organisation to extend the group

Return type
dict[str, Any] | list[dict[str, Any]]

add_organisation(*organisation*, *pythonify=False*)

Add an organisation: https://www.misp-project.org/openapi/#tag/Organisations/operation/addOrganisation

Parameters

- **organisation** (*MISPOrganisation*) – organization to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOrganisation*

add_organisation_blocklist(*uuids*, *comment=None*, *org_name=None*)

Add a new organisation in the blocklist

Parameters

- **uuids** (str | list[str]) – UUIDs
- **comment** (str | None) – comment
- **org_name** (str | None) – organization name

Return type
dict[str, Any] | list[dict[str, Any]]

add_relationship(*relationship*, *pythonify=False*)

Add a relationship to an existing MISP element

Parameters

- **relationship** (*MISPRelationship*) – relationship to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPRelationship*

add_role(*role*, *pythonify=False*)

Add a new role

Parameters

- **role** (*MISPRole*) – role to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPRole*

add_server(*server*, *pythonify=False*)

Add a server to synchronise with: https://www.misp-project.org/openapi/#tag/Servers/operation/getServers Note: You probably want to use PyMISP.get_sync_config and PyMISP.import_server instead

Parameters

- **server** (*MISPServer*) – sync server config
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPServer*

add_server_to_sharing_group(*sharing_group*, *server*, *all_orgs=False*)

Add a server to a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/addServerToSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – Sharing group's local instance ID, or Sharing group's global UUID
- **server** (*MISPServer* | int | str | UUID) – Server's local instance ID, or URL of the Server, or Server's name as known to the curent instance
- **all_orgs** (bool) – Add all the organisations of the server to the group

Return type
dict[str, Any] | list[dict[str, Any]]

add_sharing_group(*sharing_group*, *pythonify=False*)

Add a new sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/addSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup*) – sharing group to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPSharingGroup*

add_sighting(*sighting*, *attribute=None*, *pythonify=False*)

Add a new sighting (globally, or to a specific attribute): https://www.misp-project.org/openapi/#tag/Sightings/operation/addSighting and https://www.misp-project.org/openapi/#tag/Sightings/operation/getSightingsByEventId

Parameters

- **sighting** (*MISPSighting* | dict[str, Any]) – sighting to add
- **attribute** (*MISPAttribute* | int | str | UUID | None) – specific attribute to modify with the sighting
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPSighting*

add_tag(*tag*, *pythonify=False*)

Add a new tag on a MISP instance: https://www.misp-project.org/openapi/#tag/Tags/operation/addTag The user calling this method needs the Tag Editor permission. It doesn't add a tag to an event, simply creates it on the MISP instance.

Parameters

- **tag** (*MISPTag*) – tag to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTag*

add_user(*user*, *pythonify=False*)

Add a new user: https://www.misp-project.org/openapi/#tag/Users/operation/addUser

Parameters

- **user** (*MISPUser*) – user to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPUser*

attach_galaxy_cluster(*misp_entity*, *galaxy_cluster*, *local=False*, *pythonify=False*)

Attach a galaxy cluster to an event or an attribute

Parameters

- **misp_entity** (*MISPEvent* | *MISPAttribute*) – a MISP Event or a MISP Attribute

- **galaxy_cluster** (*MISPGalaxyCluster* | int | str) – Galaxy cluster to attach
- **local** (bool) – whether the object should be attached locally or not to the target
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | list[dict[str, Any]]

attribute_exists(*attribute*)

Fast check if attribute exists.

Parameters
attribute (*MISPAttribute* | int | str | UUID) – Attribute to check

Return type
bool

attribute_proposals(*event=None*, *pythonify=False*)

Get all the attribute proposals

Parameters

- **event** (*MISPEvent* | int | str | UUID | None) – event
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPShadowAttribute*] | list[dict[str, Any]]

attributes(*pythonify=False*)

Get all the attributes from the MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/getAttributes

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPAttribute*] | list[dict[str, Any]]

attributes_statistics(*context='type'*, *percentage=False*)

Get attribute statistics from the MISP instance

Parameters

- **context** (str) – "type" or "category"
- **percentage** (bool) – get percentages

Return type
dict[str, Any] | list[dict[str, Any]]

build_complex_query(*or_parameters=None*, *and_parameters=None*, *not_parameters=None*)

Build a complex search query. MISP expects a dictionary with AND, OR and NOT keys.

Return type
dict[str, list[TypeVar(SearchType, str, int)]]

cache_all_feeds()

Cache all the feeds: https://www.misp-project.org/openapi/#tag/Feeds/operation/cacheFeeds

Return type
dict[str, Any] | list[dict[str, Any]]

cache_feed(*feed*)

Cache a specific feed by id: https://www.misp-project.org/openapi/#tag/Feeds/operation/cacheFeeds

Parameters
feed (*MISPFeed* | int | str | UUID) – feed to cache

Return type
dict[str, Any] | list[dict[str, Any]]

cache_freetext_feeds()

Cache all the freetext feeds

Return type
dict[str, Any] | list[dict[str, Any]]

cache_misp_feeds()

Cache all the MISP feeds

Return type
dict[str, Any] | list[dict[str, Any]]

change_sharing_group_on_entity(*misp_entity*, *sharing_group_id*, *pythonify=False*)

Change the sharing group of an event, an attribute, or an object

Parameters

- **misp_entity** (*MISPEvent* | *MISPAttribute* | *MISPObject*) – entity to change
- **sharing_group_id** (int) – group to change
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEvent* | *MISPObject* | *MISPAttribute* | *MISPShadowAttribute*

change_user_password(*new_password*)

Change the password of the curent user:

Parameters
new_password (str) – password to set

Return type
dict[str, Any] | list[dict[str, Any]]

clean_correlation_exclusions()

Initiate correlation exclusions cleanup

Return type
dict[str, Any] | list[dict[str, Any]]

communities(*pythonify=False*)

Get all the communities

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[MISPCommunity] | list[dict[str, Any]]

compare_feeds()

Generate the comparison matrix for all the MISP feeds

Return type
dict[str, Any] | list[dict[str, Any]]

contact_event_reporter(*event*, *message*)

Send a message to the reporter of an event

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event with reporter to contact
- **message** (str) – message to send

Return type
dict[str, Any] | list[dict[str, Any]]

correlation_exclusions(*pythonify=False*)

Get all the correlation exclusions

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPCorrelationExclusion*] | list[dict[str, Any]]

db_schema_diagnostic()

Get the schema diagnostic

Return type
dict[str, Any] | list[dict[str, Any]]

decaying_models(*pythonify=False*)

Get all the decaying models

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output

Return type
dict[str, Any] | list[*MISPDecayingModel*] | list[dict[str, Any]]

delegate_event(*event=None*, *organisation=None*, *event_delegation=None*, *distribution=-1*, *message=''*, *pythonify=False*)

Delegate an event. Either event and organisation OR event_delegation are required

Parameters

- **event** (*MISPEvent* | int | str | UUID | None) – event to delegate
- **organisation** (*MISPOrganisation* | int | str | UUID | None) – organization
- **event_delegation** (*MISPEventDelegation* | None) – event delegation
- **distribution** (int) – distribution == -1 means recipient decides
- **message** (str) – message
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEventDelegation*

delete_analyst_data(*analyst_data*)

Delete an analyst data from a MISP instance

Parameters
analyst_data (*MISPNote* | *MISPOpinion* | *MISPRelationship* | int | str | UUID) – analyst data to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_attribute(*attribute*, *hard=False*)

Delete an attribute from a MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/deleteAttribute

Parameters

- **attribute** (*MISPAttribute* | int | str | UUID) – attribute to delete
- **hard** (bool) – flag for hard delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_attribute_proposal(*attribute*)

Propose the deletion of an attribute

Parameters
attribute (*MISPAttribute* | int | str | UUID) – attribute to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_correlation_exclusion(*correlation_exclusion*)

Delete a correlation exclusion

Parameters
correlation_exclusion (*MISPCorrelationExclusion* | int | str | UUID) – The MISPCorrelationExclusion you wish to delete from MISP

Return type
dict[str, Any] | list[dict[str, Any]]

delete_event(*event*)

Delete an event from a MISP instance: https://www.misp-project.org/openapi/#tag/Events/operation/deleteEvent

Parameters
event (*MISPEvent* | int | str | UUID) – event to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_event_blocklist(*event_blocklist*)

Delete a blocklisted event by id

Parameters
event_blocklist (*MISPEventBlocklist* | str | UUID) – event block list to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_event_report(*event_report*, *hard=False*)

Delete an event report from a MISP instance

Parameters

- **event_report** (*MISPEventReport* | int | str | UUID) – event report to delete
- **hard** (bool) – flag for hard delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_feed(*feed*)

Delete a feed from a MISP instance

Parameters
feed (*MISPFeed* | int | str | UUID) – feed to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_galaxy_cluster(*galaxy_cluster*, *hard=False*)

Deletes a galaxy cluster from MISP: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/deleteGalaxyCluster

Parameters

- **galaxy_cluster** (*MISPGalaxyCluster* | int | str | UUID) – The MISPGalaxyCluster you wish to delete from MISP
- **hard** (bool) – flag for hard delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_galaxy_cluster_relation(*galaxy_cluster_relation*)

Delete a galaxy cluster relation

Parameters
galaxy_cluster_relation (*MISPGalaxyClusterRelation* | int | str | UUID) – The MISPGalaxyClusterRelation to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_note(*note*)

Delete a note from a MISP instance

Parameters
note (*MISPNote* | int | str | UUID) – note delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_object(*misp_object*, *hard=False*)

Delete an object from a MISP instance: https://www.misp-project.org/openapi/#tag/Objects/operation/deleteObject

Parameters

- **misp_object** (*MISPObject* | int | str | UUID) – object to delete
- **hard** (bool) – flag for hard delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_object_reference(*object_reference*, *hard=False*)

Delete a reference to an object.

Return type
dict[str, Any] | list[dict[str, Any]]

delete_opinion(*opinion*)

Delete an opinion from a MISP instance

Parameters
opinion (*MISPOpinion* | int | str | UUID) – opinion to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_organisation(*organisation*)

Delete an organisation by id: https://www.misp-project.org/openapi/#tag/Organisations/operation/deleteOrganisation

Parameters
organisation (*MISPOrganisation* | int | str | UUID) – organization to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_organisation_blocklist(*organisation_blocklist*)

Delete a blocklisted organisation by id

Parameters
organisation_blocklist (*MISPOrganisationBlocklist* | str | UUID) – organization block list to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_relationship(*relationship*)

Delete a relationship from a MISP instance

Parameters
relationship (*MISPRelationship* | int | str | UUID) – relationship to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_role(*role*)

Delete a role

Parameters
role (*MISPRole* | int | str | UUID) – role to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_server(*server*)

Delete a sync server: https://www.misp-project.org/openapi/#tag/Servers/operation/getServers

Parameters
server (*MISPServer* | int | str | UUID) – sync server config

Return type
dict[str, Any] | list[dict[str, Any]]

delete_sharing_group(*sharing_group*)

Delete a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/deleteSharingGroup

Parameters
sharing_group (*MISPSharingGroup* | int | str | UUID) – sharing group to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_sighting(*sighting*)

Delete a sighting from a MISP instance: https://www.misp-project.org/openapi/#tag/Sightings/operation/deleteSighting

Parameters
sighting (*MISPSighting* | int | str | UUID) – sighting to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_tag(*tag*)

Delete a tag from a MISP instance: https://www.misp-project.org/openapi/#tag/Tags/operation/deleteTag

Parameters
tag (*MISPTag* | int | str | UUID) – tag to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_user(*user*)

Delete a user by id: https://www.misp-project.org/openapi/#tag/Users/operation/deleteUser

Parameters
user (*MISPUser* | int | str | UUID) – user to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_user_setting(*user_setting*, *user=None*)

Delete a user setting: https://www.misp-project.org/openapi/#tag/UserSettings/operation/deleteUserSettingById

Parameters

- **user_setting** (str) – name of user setting
- **user** (*MISPUser* | int | str | UUID | None) – user

Return type
dict[str, Any] | list[dict[str, Any]]

property describe_types_local: dict[str, Any] | list[dict[str, Any]]

Returns the content of describe types from the package

property describe_types_remote: dict[str, Any] | list[dict[str, Any]]

Returns the content of describe types from the remote instance

direct_call(*url*, *data=None*, *params={}*, *kw_params={}*)

Very lightweight call that posts a data blob (python dictionary or json string) on the URL

Parameters

- **url** (str) – URL to post to
- **data** (dict[str, Any] | None) – data to post
- **params** (Mapping[str, Any]) – dict with parameters for request
- **kw_params** (Mapping[str, Any]) – dict with keyword parameters for request

Return type
Any

disable_decaying_model(*decaying_model*)

Disable a decaying Model

Return type
dict[str, Any] | list[dict[str, Any]]

disable_feed(*feed*, *pythonify=False*)

Disable a feed: https://www.misp-project.org/openapi/#tag/Feeds/operation/disableFeed

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to disable
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

disable_feed_cache(*feed*, *pythonify=False*)

Disable the caching of a feed

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to disable caching
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

disable_noticelist(*noticelist*)

Disable a noticelist by id

Parameters
noticelist (*MISPNoticelist* | int | str | UUID) – Noticelist to disable

Return type
dict[str, Any] | list[dict[str, Any]]

disable_tag(*tag*, *pythonify=False*)

Disable a tag

Parameters

- **tag** (*MISPTag*) – tag to disable
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTag*

disable_taxonomy(*taxonomy*)

Disable a taxonomy: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/disableTaxonomy

Parameters
taxonomy (*MISPTaxonomy* | int | str | UUID) – taxonomy to disable

Return type
dict[str, Any] | list[dict[str, Any]]

disable_taxonomy_tags(*taxonomy*)

Disable all the tags of a taxonomy

Parameters
taxonomy (*MISPTaxonomy* | int | str | UUID) – taxonomy with tags to disable

Return type
dict[str, Any] | list[dict[str, Any]]

disable_warninglist(*warninglist*)

Disable a warninglist

Parameters
warninglist (*MISPWarninglist* | int | str | UUID) – warninglist to disable

Return type
dict[str, Any] | list[dict[str, Any]]

discard_attribute_proposal(*proposal*)

Discard a proposal. You cannot modify an existing proposal, only accept/discard

Parameters
proposal (*MISPShadowAttribute* | int | str | UUID) – attribute proposal to discard

Return type
dict[str, Any] | list[dict[str, Any]]

discard_event_delegation(*delegation*, *pythonify=False*)

Discard the delegation of an event

Parameters

- **delegation** (*MISPEventDelegation* | int | str) – event delegation to discard
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | list[dict[str, Any]]

discard_user_registration(*registration*)

Discard a user registration

Parameters
registration (*MISPInbox* | int | str | UUID) – the registration to discard

Return type
dict[str, Any] | list[dict[str, Any]]

enable_decaying_model(*decaying_model*)

Enable a decaying Model

Return type
dict[str, Any] | list[dict[str, Any]]

enable_feed(*feed*, *pythonify=False*)

Enable a feed; fetching it will create event(s): https://www.misp-project.org/openapi/#tag/Feeds/operation/enableFeed

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to enable
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

enable_feed_cache(*feed*, *pythonify=False*)

Enable the caching of a feed

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to enable caching
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

enable_noticelist(*noticelist*)

Enable a noticelist by id: https://www.misp-project.org/openapi/#tag/Noticelists/operation/toggleEnableNoticelist

Parameters
noticelist (*MISPNoticelist* | int | str | UUID) – Noticelist to enable

Return type
dict[str, Any] | list[dict[str, Any]]

enable_tag(*tag*, *pythonify=False*)

Enable a tag

Parameters

- **tag** (*MISPTag*) – tag to enable
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTag*

enable_taxonomy(*taxonomy*)

Enable a taxonomy: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/enableTaxonomy

Parameters
taxonomy (*MISPTaxonomy* | int | str | UUID) – taxonomy to enable

Return type
dict[str, Any] | list[dict[str, Any]]

enable_taxonomy_tags(*taxonomy*)

Enable all the tags of a taxonomy. NOTE: this is automatically done when you call enable_taxonomy

Parameters
taxonomy (*MISPTaxonomy* | int | str | UUID) – taxonomy with tags to enable

Return type
dict[str, Any] | list[dict[str, Any]]

enable_warninglist(*warninglist*)

Enable a warninglist

Parameters
warninglist (*MISPWarninglist* | int | str | UUID) – warninglist to enable

Return type
dict[str, Any] | list[dict[str, Any]]

enrich_attribute(*attribute*, *enrich_with*)

Enrich an attribute with data from one or more module.

Parameters

- **attribute** (*MISPAttribute* | int | str | UUID) – attribute to enrich
- **enrich_with** (str | list[str]) – module name or list of module names to use for enrichment

Return type
dict[str, Any]

enrich_event(*event*, *enrich_with*)

Enrich an event with data from one or more module.

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to enrich
- **enrich_with** (str | list[str]) – module name or list of module names to use for enrichment

Return type
dict[str, Any]

event_blocklists(*pythonify=False*)

Get all the blocklisted events

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPEventBlocklist*] | list[dict[str, Any]]

event_delegations(*pythonify=False*)

Get all the event delegations

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPEventDelegation*] | list[dict[str, Any]]

event_exists(*event*)

Fast check if event exists.

Parameters
event (*MISPEvent* | int | str | UUID) – Event to check

Return type
bool

events(*pythonify=False*)

Get all the events from the MISP instance: https://www.misp-project.org/openapi/#tag/Events/operation/getEvents

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPEvent*] | list[dict[str, Any]]

feeds(*pythonify=False*)

Get the list of existing feeds: https://www.misp-project.org/openapi/#tag/Feeds/operation/getFeeds

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPFeed*] | list[dict[str, Any]]

fetch_feed(*feed*)

Fetch one single feed by id: https://www.misp-project.org/openapi/#tag/Feeds/operation/fetchFromFeed

Parameters
feed (*MISPFeed* | int | str | UUID) – feed to fetch

Return type
dict[str, Any] | list[dict[str, Any]]

fork_galaxy_cluster(*galaxy*, *galaxy_cluster*, *pythonify=False*)

Forks an existing galaxy cluster, creating a new one with matching attributes

Parameters

- **galaxy** (*MISPGalaxy* | int | str | UUID) – The galaxy (or galaxy ID) where the cluster you want to fork resides
- **galaxy_cluster** (*MISPGalaxyCluster*) – The galaxy cluster you wish to fork
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxyCluster*

freetext(*event*, *string*, *adhereToWarninglists=False*, *distribution=None*, *returnMetaAttributes=False*, *pythonify=False*, ***kwargs*)

Pass a text to the freetext importer

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event
- **string** (str) – query
- **adhereToWarninglists** (bool | str) – flag
- **distribution** (int | None) – distribution == -1 means recipient decides
- **returnMetaAttributes** (bool) – flag
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **kwargs** – kwargs passed to prepare_request

Return type
dict[str, Any] | list[*MISPAttribute*] | list[dict[str, Any]]

galaxies(*withCluster=False*, *pythonify=False*)

Get all the galaxies: https://www.misp-project.org/openapi/#tag/Galaxies/operation/getGalaxies

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPGalaxy*] | list[dict[str, Any]]

get_all_functions(*not_implemented=False*)

Get all methods available via the API, including ones that are not implemented.

Return type
list[str]

get_analyst_data(*analyst_data*, *pythonify=False*)

Get an analyst data from a MISP instance

Parameters

- **analyst_data** (MISPAnalystData | int | str | UUID) – analyst data to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPNote* | *MISPOpinion* | *MISPRelationship*

get_attribute(*attribute*, *pythonify=False*)

Get an attribute from a MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/getAttributeById

Parameters

- **attribute** (*MISPAttribute* | int | str | UUID) – attribute to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPAttribute*

get_attribute_proposal(*proposal*, *pythonify=False*)

Get an attribute proposal

Parameters

- **proposal** (*MISPShadowAttribute* | int | str | UUID) – proposal to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPShadowAttribute*

get_community(*community*, *pythonify=False*)

Get a community by id from a MISP instance

Parameters

- **community** (MISPCommunity | int | str | UUID) – community to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | MISPCommunity

get_correlation_exclusion(*correlation_exclusion*, *pythonify=False*)

Get a correlation exclusion by ID

Parameters

- **correlation_exclusion** (*MISPCorrelationExclusion* | int | str | UUID) – Correlation exclusion to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPCorrelationExclusion*

get_event(*event*, *deleted=False*, *extended=False*, *pythonify=False*)

Get an event from a MISP instance. Includes collections like Attribute, EventReport, Feed, Galaxy, Object, Tag, etc. so the response size may be large : https://www.misp-project.org/openapi/#tag/Events/operation/getEventById

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to get
- **deleted** (bool | int | list[int]) – whether to include soft-deleted attributes
- **extended** (bool | int) – whether to get extended events
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPEvent*

get_event_report(*event_report*, *pythonify=False*)

Get an event report from a MISP instance

Parameters

- **event_report** (*MISPEventReport* | int | str | UUID) – event report to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPEventReport*

get_event_reports(*event_id*, *pythonify=False*)

Get event report from a MISP instance that are attached to an event ID

Parameters

- **event_id** (int | str) – event id to get the event reports for
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output.

Return type
dict[str, Any] | list[*MISPEventReport*] | list[dict[str, Any]]

get_feed(*feed*, *pythonify=False*)

Get a feed by id: https://www.misp-project.org/openapi/#tag/Feeds/operation/getFeedById

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

get_galaxy(*galaxy*, *withCluster=False*, *pythonify=False*)

Get a galaxy by id: https://www.misp-project.org/openapi/#tag/Galaxies/operation/getGalaxyById

Parameters

- **galaxy** (*MISPGalaxy* | int | str | UUID) – galaxy to get
- **withCluster** (bool) – Include the clusters associated with the galaxy
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxy*

get_galaxy_cluster(*galaxy_cluster*, *pythonify=False*)

Gets a specific galaxy cluster

Parameters

- **galaxy_cluster** (*MISPGalaxyCluster* | int | str | UUID) – The MISPGalaxyCluster you want to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxyCluster*

get_new_authkey(*user='me'*)

Get a new authorization key for a specific user, defaults to user doing the call: https://www.misp-project.org/openapi/#tag/AuthKeys/operation/addAuthKey

Parameters
user (*MISPUser* | int | str | UUID) – The owner of the key

Return type
str

get_note(*note*, *pythonify=False*)

Get a note from a MISP instance

Parameters

- **note** (*MISPNote*) – note to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPNote*

get_noticelist(*noticelist*, *pythonify=False*)

Get a noticelist by id: https://www.misp-project.org/openapi/#tag/Noticelists/operation/getNoticelistById

Parameters

- **notistlist** – Noticelist to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNoticelist*

get_object(*misp_object*, *pythonify=False*)

Get an object from the remote MISP instance: https://www.misp-project.org/openapi/#tag/Objects/operation/getObjectById

Parameters

- **misp_object** (*MISPObject* | int | str | UUID) – object to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPObject*

get_object_template(*object_template*, *pythonify=False*)

Gets the full object template

Parameters

- **object_template** (*MISPObjectTemplate* | int | str | UUID) – template or ID to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPObjectTemplate*

get_opinion(*opinion*, *pythonify=False*)

Get an opinion from a MISP instance

Parameters

- **opinion** (*MISPOpinion*) – opinion to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPOpinion*

get_organisation(*organisation*, *pythonify=False*)

Get an organisation by id: https://www.misp-project.org/openapi/#tag/Organisations/operation/getOrganisationById

Parameters

- **organisation** (*MISPOrganisation* | int | str | UUID) – organization to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOrganisation*

get_raw_object_template(*uuid_or_name*)

Get a row template. It needs to be present on disk on the MISP instance you're connected to. The response of this method can be passed to MISPObject(<name>, misp_objects_template_custom=<response>)

Return type
dict[str, Any] | list[dict[str, Any]]

get_relationship(*relationship*, *pythonify=False*)

Get a relationship from a MISP instance

Parameters

- **relationship** (*MISPRelationship*) – relationship to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPRelationship*

get_server_setting(*setting*)

Get a setting from the MISP instance

Parameters
setting (str) – server setting name

Return type
dict[str, Any] | list[dict[str, Any]]

get_sharing_group(*sharing_group*, *pythonify=False*)

Get a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/getSharingGroupById

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – sharing group to find
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPSharingGroup*

get_sync_config(*pythonify=False*)

Get the sync server config. WARNING: This method only works if the user calling it is a sync user

Parameters
pythonify (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPServer*

get_tag(*tag*, *pythonify=False*)

Get a tag by id: https://www.misp-project.org/openapi/#tag/Tags/operation/getTagById

Parameters

- **tag** (*MISPTag* | int | str | UUID) – tag to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTag*

get_taxonomy(*taxonomy*, *pythonify=False*)

Get a taxonomy by id or namespace from a MISP instance: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/getTaxonomyById

Parameters

- **taxonomy** (*MISPTaxonomy* | int | str | UUID) – taxonomy to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTaxonomy*

get_user(*user='me'*, *pythonify=False*, *expanded=False*)

Get a user by id: https://www.misp-project.org/openapi/#tag/Users/operation/getUsers

Parameters

- **user** (*MISPUser* | int | str | UUID) – user to get; *me* means the owner of the API key doing the query
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **expanded** (bool) – Also returns a MISPRole and a MISPUserSetting. Only taken in account if pythonify is True.

Return type

dict[str, Any] | *MISPUser* | tuple[*MISPUser*, *MISPRole*, list[*MISPUserSetting*]]

get_user_setting(*user_setting*, *user=None*, *pythonify=False*)

Get a user setting: https://www.misp-project.org/openapi/#tag/UserSettings/operation/getUserSettingById

Parameters

- **user_setting** (str) – name of user setting
- **user** (*MISPUser* | int | str | UUID | None) – user
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type

dict[str, Any] | *MISPUserSetting*

get_warninglist(*warninglist*, *pythonify=False*)

Get a warninglist by id: https://www.misp-project.org/openapi/#tag/Warninglists/operation/getWarninglistById

Parameters

- **warninglist** (*MISPWarninglist* | int | str | UUID) – warninglist to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type

dict[str, Any] | *MISPWarninglist*

get_workers()

Get all the workers

Return type

dict[str, Any] | list[dict[str, Any]]

import_server(*server*, *pythonify=False*)

Import a sync server config received from get_sync_config

Parameters

- **server** (*MISPServer*) – sync server config
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type

dict[str, Any] | *MISPServer*

kill_all_workers()

Kill all the workers

Return type
dict[str, Any] | list[dict[str, Any]]

load_default_feeds()

Load all the default feeds.

Return type
dict[str, Any] | list[dict[str, Any]]

property misp_instance_version: dict[str, Any] | list[dict[str, Any]]

Returns the version of the instance.

property misp_instance_version_master: dict[str, Any] | list[dict[str, Any]]

Get the most recent version from github

noticelists(*pythonify=False*)

Get all the noticelists: https://www.misp-project.org/openapi/#tag/Noticelists/operation/getNoticelists

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPNoticelist*] | list[dict[str, Any]]

object_exists(*misp_object*)

Fast check if object exists.

Parameters
misp_object (*MISPObject* | int | str | UUID) – Attribute to check

Return type
bool

object_templates(*pythonify=False*)

Get all the object templates

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPObjectTemplate*] | list[dict[str, Any]]

organisation_blocklists(*pythonify=False*)

Get all the blocklisted organisations

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPOrganisationBlocklist*] | list[dict[str, Any]]

organisation_exists(*organisation*)

Fast check if organisation exists.

Parameters
organisation (*MISPOrganisation* | int | str | UUID) – Organisation to check

Return type
bool

organisations(*scope='local'*, *search=None*, *pythonify=False*)

Get all the organisations: https://www.misp-project.org/openapi/#tag/Organisations/operation/getOrganisations

Parameters

- **scope** (str) – scope of organizations to get
- **search** (str | None) – The search to make against the list of organisations
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPOrganisation*] | list[dict[str, Any]]

publish(*event*, *alert=False*)

Publish the event with one single HTTP POST: https://www.misp-project.org/openapi/#tag/Events/operation/publishEvent

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to publish
- **alert** (bool) – whether to send an email. The default is to not send a mail as it is assumed this method is called on update.

Return type
dict[str, Any] | list[dict[str, Any]]

publish_galaxy_cluster(*galaxy_cluster*)

Publishes a galaxy cluster: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/publishGalaxyCluster

Parameters
galaxy_cluster (*MISPGalaxyCluster* | int | str | UUID) – The galaxy cluster you wish to publish

Return type
dict[str, Any] | list[dict[str, Any]]

push_event_to_ZMQ(*event*)

Force push an event by id on ZMQ

Parameters
event (*MISPEvent* | int | str | UUID) – the event to push

Return type
dict[str, Any] | list[dict[str, Any]]

property pymisp_version_main: dict[str, Any] | list[dict[str, Any]]

Get the most recent version of PyMISP from github

property pymisp_version_master: dict[str, Any] | list[dict[str, Any]]

PyMISP version as defined in the main repository

property recommended_pymisp_version: dict[str, Any] | list[dict[str, Any]]

Returns the recommended API version from the server

remote_acl(*debug_type='findMissingFunctionNames'*)

This should return an empty list, unless the ACL is outdated.

Parameters
debug_type (str) – printAllFunctionNames, findMissingFunctionNames, or printRoleAccess

Return type
dict[str, Any] | list[dict[str, Any]]

remove_org_from_sharing_group(*sharing_group*, *organisation*)

Remove an organisation from a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/removeOrganisationFromSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – Sharing group's local instance ID, or Sharing group's global UUID
- **organisation** (*MISPOrganisation* | int | str | UUID) – Organisation's local instance ID, or Organisation's global UUID, or Organisation's name as known to the curent instance

Return type
dict[str, Any] | list[dict[str, Any]]

remove_server_from_sharing_group(*sharing_group*, *server*)

Remove a server from a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/removeServerFromSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – Sharing group's local instance ID, or Sharing group's global UUID
- **server** (*MISPServer* | int | str | UUID) – Server's local instance ID, or URL of the Server, or Server's name as known to the curent instance

Return type
dict[str, Any] | list[dict[str, Any]]

request_community_access(*community*, *requestor_email_address=None*, *requestor_gpg_key=None*, *requestor_organisation_name=None*, *requestor_organisation_uuid=None*, *requestor_organisation_description=None*, *message=None*, *sync=False*, *anonymise_requestor_server=False*, *mock=False*)

Request the access to a community

Parameters

- **community** (MISPCommunity | int | str | UUID) – community to request access
- **requestor_email_address** (str | None) – requestor email
- **requestor_gpg_key** (str | None) – requestor key
- **requestor_organisation_name** (str | None) – requestor org name
- **requestor_organisation_uuid** (str | None) – requestor org ID
- **requestor_organisation_description** (str | None) – requestor org desc
- **message** (str | None) – requestor message
- **sync** (bool) – synchronize flag

- **anonymise_requestor_server** (bool) – anonymise flag
- **mock** (bool) – mock flag

Return type
dict[str, Any] | list[dict[str, Any]]

restart_dead_workers()

Restart the dead workers

Return type
dict[str, Any] | list[dict[str, Any]]

restart_workers()

Restart all the workers

Return type
dict[str, Any] | list[dict[str, Any]]

restore_attribute(*attribute*, *pythonify=False*)

Restore a soft deleted attribute from a MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/restoreAttribute

Parameters
attribute (*MISPAttribute* | int | str | UUID) – attribute to restore

Return type
dict[str, Any] | *MISPAttribute*

roles(*pythonify=False*)

Get the existing roles

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPRole*] | list[dict[str, Any]]

search(*controller='events'*, *return_format='json'*, *limit=None*, *page=None*, *value=None*, *type_attribute=None*, *category=None*, *org=None*, *tags=None*, *event_tags=None*, *quick_filter=None*, *quickFilter=None*, *date_from=None*, *date_to=None*, *eventid=None*, *with_attachments=None*, *withAttachments=None*, *metadata=None*, *uuid=None*, *publish_timestamp=None*, *last=None*, *timestamp=None*, *published=None*, *enforce_warninglist=None*, *enforceWarninglist=None*, *to_ids=None*, *deleted=None*, *include_event_uuid=None*, *includeEventUuid=None*, *include_event_tags=None*, *includeEventTags=None*, *event_timestamp=None*, *sg_reference_only=None*, *eventinfo=None*, *searchall=None*, *requested_attributes=None*, *include_context=None*, *includeContext=None*, *headerless=None*, *include_sightings=None*, *includeSightings=None*, *include_correlations=None*, *includeCorrelations=None*, *include_decay_score=None*, *includeDecayScore=None*, *object_name=None*, *exclude_decayed=None*, *sharinggroup=None*, *pythonify=False*, ***kwargs*)

Search in the MISP instance

Parameters

- **controller** (str) – Controller to search on, it can be *events*, *objects*, *attributes*. The response will either be a list of events, objects, or attributes. Reference documentation for each controller:
  - events: https://www.misp-project.org/openapi/#tag/Events/operation/restSearchEvents

  - attributes: https://www.misp-project.org/openapi/#tag/Attributes/operation/restSearchAttributes
  - objects: N/A

- **return_format** (str) – Set the return format of the search (Currently supported: json, xml, openioc, suricata, snort - more formats are being moved to restSearch with the goal being that all searches happen through this API). Can be passed as the first parameter after restSearch or via the JSON payload.
- **limit** (int | None) – Limit the number of results returned, depending on the scope (for example 10 attributes or 10 full events).
- **page** (int | None) – If a limit is set, sets the page to be returned. page 3, limit 100 will return records 201->300).
- **value** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Search for the given value in the attributes' value field.
- **type_attribute** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – The attribute type, any valid MISP attribute type is accepted.
- **category** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – The attribute category, any valid MISP attribute category is accepted.
- **org** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Search by the creator organisation by supplying the organisation identifier.
- **tags** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Tags to search or to exclude. You can pass a list, or the output of *build_complex_query*
- **event_tags** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Tags to search or to exclude at the event level. You can pass a list, or the output of *build_complex_query*
- **quick_filter** (str | None) – The string passed to this field will ignore all of the other arguments. MISP will return an xml / json (depending on the header sent) of all events that have a sub-string match on value in the event info, event orgc, or any of the attribute value1 / value2 fields, or in the attribute comment.
- **date_from** (datetime | date | int | str | float | None) – Events with the date set to a date after the one specified. This filter will use the date of the event.
- **date_to** (datetime | date | int | str | float | None) – Events with the date set to a date before the one specified. This filter will use the date of the event.
- **eventid** (TypeVar(SearchType, str, int) | None) – The events that should be included / excluded from the search
- **with_attachments** (bool | None) – If set, encodes the attachments / zipped malware samples as base64 in the data field within each attribute
- **metadata** (bool | None) – Only the metadata (event, tags, relations) is returned, attributes and proposals are omitted.
- **uuid** (str | None) – Restrict the results by uuid.
- **publish_timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Restrict the results by the last publish timestamp (newer than).

- **timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Restrict the results by the timestamp (last edit). Any event with a timestamp newer than the given timestamp will be returned. In case you are dealing with /attributes as scope, the attribute's timestamp will be used for the lookup. The input can be a timestamp or a short-hand time description (7d or 24h for example). You can also pass a list with two values to set a time range (for example ["14d", "7d"]).
- **published** (bool | None) – Set whether published or unpublished events should be returned. Do not set the parameter if you want both.
- **enforce_warninglist** (bool | None) – Remove any attributes from the result that would cause a hit on a warninglist entry.
- **to_ids** (TypeVar(ToIDSType, str, int, bool) | list[TypeVar(ToIDSType, str, int, bool)] | None) – By default all attributes are returned that match the other filter parameters, regardless of their to_ids setting. To restrict the returned data set to to_ids only attributes set this parameter to 1. 0 for the ones with to_ids set to False.
- **deleted** (str | None) – If this parameter is set to 1, it will only return soft-deleted attributes. ["0", "1"] will return the active ones as well as the soft-deleted ones.
- **include_event_uuid** (bool | None) – Instead of just including the event ID, also include the event UUID in each of the attributes.
- **include_event_tags** (bool | None) – Include the event level tags in each of the attributes.
- **event_timestamp** (datetime | date | int | str | float | None) – Only return attributes from events that have received a modification after the given timestamp.
- **sg_reference_only** (bool | None) – If this flag is set, sharing group objects will not be included, instead only the sharing group ID is set.
- **eventinfo** (str | None) – Filter on the event's info field.
- **searchall** (bool | None) – Search for a full or a substring (delimited by % for substrings) in the event info, event tags, attribute tags, attribute values or attribute comment fields.
- **requested_attributes** (str | None) – [CSV only] Select the fields that you wish to include in the CSV export. By setting event level fields additionally, includeContext is not required to get event metadata.
- **include_context** (bool | None) – [Attribute only] Include the event data with each attribute. [CSV output] Add event level metadata in every line of the CSV.
- **headerless** (bool | None) – [CSV Only] The CSV created when this setting is set to true will not contain the header row.
- **include_sightings** (bool | None) – [JSON Only - Attribute] Include the sightings of the matching attributes.
- **include_decay_score** (bool | None) – Include the decay score at attribute level.
- **include_correlations** (bool | None) – [JSON Only - attribute] Include the correlations of the matching attributes.
- **object_name** (str | None) – [objects controller only] Search for objects with that name
- **exclude_decayed** (bool | None) – [attributes controller only] Exclude the decayed attributes from the response
- **sharinggroup** (int | list[int] | None) – Filter by sharing group ID(s)

- **pythonify** (bool | None) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | str | list[*MISPEvent* | *MISPAttribute* | *MISPObject*] | list[dict[str, Any]]

Deprecated:

Parameters

- **quickFilter** (str | None) – synonym for quick_filter
- **withAttachments** (bool | None) – synonym for with_attachments
- **last** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – synonym for publish_timestamp
- **enforceWarninglist** (bool | None) – synonym for enforce_warninglist
- **includeEventUuid** (bool | None) – synonym for include_event_uuid
- **includeEventTags** (bool | None) – synonym for include_event_tags
- **includeContext** (bool | None) – synonym for include_context

search_feeds(*value=None*, *pythonify=False*)

Search in the feeds cached on the servers

Return type
dict[str, Any] | list[*MISPFeed*] | list[dict[str, Any]]

search_galaxy(*value*, *withCluster=False*, *pythonify=False*)

Text search to find a matching galaxy name, namespace, description, or uuid.

Return type
dict[str, Any] | list[*MISPGalaxy*] | list[dict[str, Any]]

search_galaxy_clusters(*galaxy*, *context='all'*, *searchall=None*, *pythonify=False*)

Searches the galaxy clusters within a specific galaxy: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/getGalaxyClusters and https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/getGalaxyClusterById

Parameters

- **galaxy** (*MISPGalaxy* | int | str | UUID) – The MISPGalaxy you wish to search in
- **context** (str) – The context of how you want to search within the **galaxy_**
- **searchall** (str | None) – The search you want to make against the galaxy and context
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | list[*MISPGalaxyCluster*] | list[dict[str, Any]]

search_index(*all=None*, *attribute=None*, *email=None*, *published=None*, *hasproposal=None*, *eventid=None*, *tags=None*, *date_from=None*, *date_to=None*, *eventinfo=None*, *threatlevel=None*, *distribution=None*, *analysis=None*, *org=None*, *timestamp=None*, *publish_timestamp=None*, *sharinggroup=None*, *minimal=None*, *sort=None*, *desc=None*, *limit=None*, *page=None*, *pythonify=None*)

Search event metadata shown on the event index page. Using ! in front of a value means NOT, except for parameters date_from, date_to and timestamp which cannot be negated. Criteria are AND-ed together;

values in lists are OR-ed together. Return matching events with metadata but no attributes or objects; also see minimal parameter.

Parameters

- **all** (str | None) – Search for a full or a substring (delimited by % for substrings) in the event info, event tags, attribute tags, attribute values or attribute comment fields.
- **attribute** (str | None) – Filter on attribute's value.
- **email** (str | None) – Filter on user's email.
- **published** (bool | None) – Set whether published or unpublished events should be returned. Do not set the parameter if you want both.
- **hasproposal** (bool | None) – Filter for events containing proposal(s).
- **eventid** (TypeVar(SearchType, str, int) | None) – The events that should be included / excluded from the search
- **tags** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Tags to search or to exclude. You can pass a list, or the output of *build_complex_query*
- **date_from** (datetime | date | int | str | float | None) – Events with the date set to a date after the one specified. This filter will use the date of the event.
- **date_to** (datetime | date | int | str | float | None) – Events with the date set to a date before the one specified. This filter will use the date of the event.
- **eventinfo** (str | None) – Filter on the event's info field.
- **threatlevel** (list[TypeVar(SearchType, str, int)] | None) – Threat level(s) (1,2,3,4) | list
- **distribution** (list[TypeVar(SearchType, str, int)] | None) – Distribution level(s) (0,1,2,3) | list
- **analysis** (list[TypeVar(SearchType, str, int)] | None) – Analysis level(s) (0,1,2) | list
- **org** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Search by the creator organisation by supplying the organisation identifier.
- **timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Restrict the results by the timestamp (last edit). Any event with a timestamp newer than the given timestamp will be returned. In case you are dealing with /attributes as scope, the attribute's timestamp will be used for the lookup.
- **publish_timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Filter on event's publish timestamp.
- **sharinggroup** (list[TypeVar(SearchType, str, int)] | None) – Restrict by a sharing group | list
- **minimal** (bool | None) – Return only event ID, UUID, timestamp, sighting_timestamp and published.
- **sort** (str | None) – The field to sort the events by, such as 'id', 'date', 'attribute_count'.
- **desc** (bool | None) – Whether to sort events ascending (default) or descending.
- **limit** (int | None) – Limit the number of events returned

- **page** (int | None) – If a limit is set, sets the page to be returned. page 3, limit 100 will return records 201->300).
- **pythonify** (bool | None) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPEvent*] | list[dict[str, Any]]

search_logs(*limit=None*, *page=None*, *log_id=None*, *title=None*, *created=None*, *model=None*, *action=None*, *user_id=None*, *change=None*, *email=None*, *org=None*, *description=None*, *ip=None*, *pythonify=False*)

Search in logs

Note: to run substring queries simply append/prepend/encapsulate the search term with %

Parameters

- **limit** (int | None) – Limit the number of results returned, depending on the scope (for example 10 attributes or 10 full events).
- **page** (int | None) – If a limit is set, sets the page to be returned. page 3, limit 100 will return records 201->300).
- **log_id** (int | None) – Log ID
- **title** (str | None) – Log Title
- **created** (datetime | date | int | str | float | None) – Creation timestamp
- **model** (str | None) – Model name that generated the log entry
- **action** (str | None) – The thing that was done
- **user_id** (int | None) – ID of the user doing the action
- **change** (str | None) – Change that occured
- **email** (str | None) – Email of the user
- **org** (str | None) – Organisation of the User doing the action
- **description** (str | None) – Description of the action
- **ip** (str | None) – Origination IP of the User doing the action
- **pythonify** (bool | None) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPLog*] | list[dict[str, Any]]

search_sightings(*context=None*, *context_id=None*, *type_sighting=None*, *date_from=None*, *date_to=None*, *publish_timestamp=None*, *last=None*, *org=None*, *source=None*, *include_attribute=None*, *include_event_meta=None*, *pythonify=False*)

Search sightings

Parameters

- **context** (str | None) – The context of the search. Can be either “attribute”, “event”, or nothing (will then match on events and attributes).
- **context_id** (TypeVar(SearchType, str, int) | None) – Only relevant if context is either “attribute” or “event”. Then it is the relevant ID.
- **type_sighting** (str | None) – Type of sighting

- **date_from** (datetime | date | int | str | float | None) – Events with the date set to a date after the one specified. This filter will use the date of the event.
- **date_to** (datetime | date | int | str | float | None) – Events with the date set to a date before the one specified. This filter will use the date of the event.
- **publish_timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Restrict the results by the last publish timestamp (newer than).
- **org** (TypeVar(SearchType, str, int) | None) – Search by the creator organisation by supplying the organisation identifier.
- **source** (str | None) – Source of the sighting
- **include_attribute** (bool | None) – Include the attribute.
- **include_event_meta** (bool | None) – Include the meta information of the event.

Return type
dict[str, Any] | list[dict[str, *MISPEvent* | *MISPAttribute* | *MISPSighting*]]

Deprecated:

Parameters
last (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – synonym for publish_timestamp

Example

```
>>> misp.search_sightings(publish_timestamp='30d') # search sightings for the␣
↪last 30 days on the instance
[ ... ]
>>> misp.search_sightings(context='attribute', context_id=6, include_
↪attribute=True) # return list of sighting for attribute 6 along with the␣
↪attribute itself
[ ... ]
>>> misp.search_sightings(context='event', context_id=17, include_event_
↪meta=True, org=2) # return list of sighting for event 17 filtered with org id␣
↪2
```

search_tags(*tagname*, *strict_tagname=False*, *pythonify=False*)

Search for tags by name: https://www.misp-project.org/openapi/#tag/Tags/operation/searchTag

Parameters

- **tag_name** – Name to search, use % for substrings matches.
- **strict_tagname** (bool) – only return tags matching exactly the tag name (so skipping synonyms and cluster's value)

Return type
dict[str, Any] | list[*MISPTag*] | list[dict[str, Any]]

server_pull(*server*, *event=None*)

Initialize a pull from a sync server, optionally limited to one event: https://www.misp-project.org/openapi/#tag/Servers/operation/pullServer

Parameters

- **server** (*MISPServer* | int | str | UUID) – sync server config
- **event** (*MISPEvent* | int | str | UUID | None) – event

Return type
dict[str, Any] | list[dict[str, Any]]

server_push(*server*, *event=None*)

Initialize a push to a sync server, optionally limited to one event: https://www.misp-project.org/openapi/#tag/Servers/operation/pushServer

Parameters

- **server** (*MISPServer* | int | str | UUID) – sync server config
- **event** (*MISPEvent* | int | str | UUID | None) – event

Return type
dict[str, Any] | list[dict[str, Any]]

server_settings()

Get all the settings from the server

Return type
dict[str, Any] | list[dict[str, Any]]

servers(*pythonify=False*)

Get the existing servers the MISP instance can synchronise with: https://www.misp-project.org/openapi/#tag/Servers/operation/getServers

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPServer*] | list[dict[str, Any]]

set_default_role(*role*)

Set a default role for the new user accounts

Parameters
role (*MISPRole* | int | str | UUID) – the default role to set

Return type
dict[str, Any] | list[dict[str, Any]]

set_server_setting(*setting*, *value*, *force=False*)

Set a setting on the MISP instance

Parameters

- **setting** (str) – server setting name
- **value** (str | int | bool) – value to set
- **force** (bool) – override value test

Return type
dict[str, Any] | list[dict[str, Any]]

set_user_setting(*user_setting*, *value*, *user=None*, *pythonify=False*)

Set a user setting: https://www.misp-project.org/openapi/#tag/UserSettings/operation/setUserSetting

Parameters

- **user_setting** (str) – name of user setting
- **value** (str | dict[str, Any]) – value to set

- **user** (*MISPUser* | int | str | UUID | None) – user
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPUserSetting*

sharing_group_exists(*sharing_group*)

Fast check if sharing group exists.

Parameters
sharing_group (*MISPSharingGroup* | int | str | UUID) – Sharing group to check

Return type
bool

sharing_groups(*pythonify=False*)

Get the existing sharing groups: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/getSharingGroup

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPSharingGroup*] | list[dict[str, Any]]

sightings(*misp_entity=None*, *org=None*, *pythonify=False*)

Get the list of sightings related to a MISPEvent or a MISPAttribute (depending on type of misp_entity): https://www.misp-project.org/openapi/#tag/Sightings/operation/getSightingsByEventId

Parameters

- **misp_entity** (*AbstractMISP* | None) – MISP entity
- **org** (*MISPOrganisation* | int | str | UUID | None) – MISP organization
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPSighting*] | list[dict[str, Any]]

sign_blob(*blob*)

Sign a blob

Parameters
blob (str) – blob to sign

Return type
str

start_worker(*worker_type*)

Start a worker :type worker_type: str :param worker_type: The type of worker, must be one of the following: “default” “email” “scheduler” “cache” “prio” “update”

Return type
dict[str, Any] | list[dict[str, Any]]

stop_worker_by_pid(*worker_pid*)

Stop a worker by its PID (get the pid with get_workers) :type worker_pid: str | int :param worker_pid: The pid of the worker to stop

Return type
dict[str, Any] | list[dict[str, Any]]

tag(*misp_entity*, *tag*, *local=False*, *relationship_type=None*)

Tag an event or an attribute.

Parameters

- **misp_entity** (*AbstractMISP* | str | dict[str, Any]) – a MISPEvent, a MISP Attribute, or a UUID
- **tag** (*MISPTag* | str | dict[str, Any]) – tag to add
- **local** (bool) – whether to tag locally
- **relationship_type** (str | None) – Type of relationship between the tag and the attribute or event

Return type
dict[str, Any] | list[dict[str, Any]]

tags(*pythonify=False*, ***kw_params*)

Get the list of existing tags: https://www.misp-project.org/openapi/#tag/Tags/operation/getTags

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPTag*]

tags_statistics(*percentage=False*, *name_sort=False*)

Get tag statistics from the MISP instance

Parameters

- **percentage** (bool) – get percentages
- **name_sort** (bool) – sort by name

Return type
dict[str, Any] | list[dict[str, Any]]

taxonomies(*pythonify=False*)

Get all the taxonomies: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/getTaxonomies

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPTaxonomy*] | list[dict[str, Any]]

test_server(*server*)

Test if a sync link is working as expected

Parameters
server (*MISPServer* | int | str | UUID) – sync server config

Return type
dict[str, Any] | list[dict[str, Any]]

toggle_global_pythonify()

Toggle the pythonify variable for the class

Return type
None

toggle_warninglist(*warninglist_id=None*, *warninglist_name=None*, *force_enable=None*)

Toggle (enable/disable) the status of a warninglist by id: https://www.misp-project.org/openapi/#tag/Warninglists/operation/toggleEnableWarninglist

Parameters

- **warninglist_id** (str | int | list[int] | None) – ID of the WarningList
- **warninglist_name** (str | list[str] | None) – name of the WarningList
- **force_enable** (bool | None) – Force the warning list in the enabled state (does nothing if already enabled) - None means toggle.

Return type
dict[str, Any] | list[dict[str, Any]]

unpublish(*event*)

Unpublish the event with one single HTTP POST: https://www.misp-project.org/openapi/#tag/Events/operation/unpublishEvent

Parameters
event (*MISPEvent* | int | str | UUID) – event to unpublish

Return type
dict[str, Any] | list[dict[str, Any]]

untag(*misp_entity*, *tag*)

Untag an event or an attribute

Parameters

- **misp_entity** (*AbstractMISP* | str | dict[str, Any]) – misp_entity can be a UUID
- **tag** (*MISPTag* | str) – tag to remove

Return type
dict[str, Any] | list[dict[str, Any]]

update_analyst_data(*analyst_data*, *analyst_data_id=None*, *pythonify=False*)

Update an analyst data on a MISP instance

Parameters

- **analyst_data** (*MISPNote* | *MISPOpinion* | *MISPRelationship*) – analyst data to update
- **analyst_data_id** (int | None) – analyst data ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNote* | *MISPOpinion* | *MISPRelationship*

update_attribute(*attribute*, *attribute_id=None*, *pythonify=False*)

Update an attribute on a MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/editAttribute

Parameters

- **attribute** (*MISPAttribute*) – attribute to update
- **attribute_id** (int | None) – attribute ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPAttribute* | *MISPShadowAttribute*

update_attribute_proposal(*initial_attribute*, *attribute*, *pythonify=False*)

Propose a change for an attribute

Parameters

- **initial_attribute** (*MISPAttribute* | int | str | UUID) – attribute to change
- **attribute** (*MISPAttribute*) – attribute to propose
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPShadowAttribute*

update_decaying_models()

Update all the Decaying models

Return type
dict[str, Any] | list[dict[str, Any]]

update_event(*event*, *event_id=None*, *pythonify=False*, *metadata=False*)

Update an event on a MISP instance: https://www.misp-project.org/openapi/#tag/Events/operation/editEvent

Parameters

- **event** (*MISPEvent*) – event to update
- **event_id** (int | None) – ID of event to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **metadata** (bool) – Return just event metadata after successful update

Return type
dict[str, Any] | *MISPEvent*

update_event_blocklist(*event_blocklist*, *event_blocklist_id=None*, *pythonify=False*)

Update an event in the blocklist

Parameters

- **event_blocklist** (*MISPEventBlocklist*) – event block list
- **event_blocklist_id** (int | str | UUID | None) – event block lisd id
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEventBlocklist*

update_event_report(*event_report*, *event_report_id=None*, *pythonify=False*)

Update an event report on a MISP instance

Parameters

- **event_report** (*MISPEventReport*) – event report to update

- **event_report_id** (int | None) – event report ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEventReport*

update_feed(*feed*, *feed_id=None*, *pythonify=False*)

Update a feed on a MISP instance

Parameters

- **feed** (*MISPFeed*) – feed to update
- **feed_id** (int | None) – feed id
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

update_galaxies()

Update all the galaxies: https://www.misp-project.org/openapi/#tag/Galaxies/operation/updateGalaxies

Return type
dict[str, Any] | list[dict[str, Any]]

update_galaxy_cluster(*galaxy_cluster*, *pythonify=False*)

Update a custom galaxy cluster: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/editGalaxyCluster

;param galaxy_cluster: The MISPGalaxyCluster you wish to update :type pythonify: bool :param pythonify: Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxyCluster*

update_galaxy_cluster_relation(*galaxy_cluster_relation*)

Update a galaxy cluster relation

Parameters
galaxy_cluster_relation (*MISPGalaxyClusterRelation*) – The MISPGalaxyClusterRelation to update

Return type
dict[str, Any] | list[dict[str, Any]]

update_misp()

Trigger a server update

Return type
dict[str, Any] | list[dict[str, Any]]

update_note(*note*, *note_id=None*, *pythonify=False*)

Update a note on a MISP instance

Parameters

- **note** (*MISPNote*) – note to update
- **note_id** (int | None) – note ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNote*

update_noticelists()

Update all the noticelists: https://www.misp-project.org/openapi/#tag/Noticelists/operation/updateNoticelists

Return type
dict[str, Any] | list[dict[str, Any]]

update_object(*misp_object*, *object_id=None*, *pythonify=False*)

Update an object on a MISP instance

Parameters

- **misp_object** (*MISPObject*) – object to update
- **object_id** (int | None) – ID of object to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPObject*

update_object_templates()

Trigger an update of the object templates

Return type
dict[str, Any] | list[dict[str, Any]]

update_opinion(*opinion*, *opinion_id=None*, *pythonify=False*)

Update an opinion on a MISP instance

Parameters

- **opinion** (*MISPOpinion*) – opinion to update
- **opinion_id** (int | None) – opinion ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOpinion*

update_organisation(*organisation*, *organisation_id=None*, *pythonify=False*)

Update an organisation: https://www.misp-project.org/openapi/#tag/Organisations/operation/editOrganisation

Parameters

- **organisation** (*MISPOrganisation*) – organization to update
- **organisation_id** (int | None) – id to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOrganisation*

update_organisation_blocklist(*organisation_blocklist*, *organisation_blocklist_id=None*, *pythonify=False*)

Update an organisation in the blocklist

Parameters

- **organisation_blocklist** (*MISPOrganisationBlocklist*) – organization block list
- **organisation_blocklist_id** (int | str | UUID | None) – organization block lisd id
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOrganisationBlocklist*

update_relationship(*relationship*, *relationship_id=None*, *pythonify=False*)

Update a relationship on a MISP instance

Parameters

- **relationship** (*MISPRelationship*) – relationship to update
- **relationship_id** (int | None) – relationship ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPRelationship*

update_role(*role*, *role_id=None*, *pythonify=False*)

Update a role on a MISP instance

Parameters

- **role** (*MISPRole*) – role to update
- **role_id** (int | None) – id to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPRole*

update_server(*server*, *server_id=None*, *pythonify=False*)

Update a server to synchronise with: https://www.misp-project.org/openapi/#tag/Servers/operation/getServers

Parameters

- **server** (*MISPServer*) – sync server config
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPServer*

update_sharing_group(*sharing_group*, *sharing_group_id=None*, *pythonify=False*)

Update sharing group parameters: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/editSharingGroup

Return type
dict[str, Any] | *MISPSharingGroup*

Parameters
sharing_group (*MISPSharingGroup* | dict[str, Any]) – MISP Sharing Group

:param sharing_group_id Sharing group ID :type pythonify: bool :param pythonify: Returns a PyMISP Object instead of the plain json output

update_tag(*tag*, *tag_id=None*, *pythonify=False*)

Edit only the provided parameters of a tag: https://www.misp-project.org/openapi/#tag/Tags/operation/editTag

Parameters

- **tag** (*MISPTag*) – tag to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Aram tag_id
tag ID to update

Return type
dict[str, Any] | *MISPTag*

update_taxonomies()

Update all the taxonomies: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/updateTaxonomies

Return type
dict[str, Any] | list[dict[str, Any]]

update_user(*user*, *user_id=None*, *pythonify=False*)

Update a user on a MISP instance: https://www.misp-project.org/openapi/#tag/Users/operation/editUser

Parameters

- **user** (*MISPUser*) – user to update
- **user_id** (int | None) – id to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPUser*

update_warninglists()

Update all the warninglists: https://www.misp-project.org/openapi/#tag/Warninglists/operation/updateWarninglists

Return type
dict[str, Any] | list[dict[str, Any]]

upload_stix(*path=None*, *data=None*, *version='2'*)

Upload a STIX file to MISP.

Parameters

- **path** (str | Path | BytesIO | StringIO | None) – Path to the STIX on the disk (can be a path-like object, or a pseudofile)
- **data** (str | bytes | None) – stix object
- **version** (str) – Can be 1 or 2

Return type
Response

user_registrations(*pythonify=False*)

Get all the user registrations

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPInbox*] | list[dict[str, Any]]

user_settings(*pythonify=False*)

Get all the user settings: https://www.misp-project.org/openapi/#tag/UserSettings/operation/getUserSettings

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPUserSetting*] | list[dict[str, Any]]

users(*search=None*, *organisation=None*, *pythonify=False*)

Get all the users, or a filtered set of users: https://www.misp-project.org/openapi/#tag/Users/operation/getUsers

Parameters

- **search** (str | None) – The search to make against the list of users
- **organisation** (int | None) – The ID of an organisation to filter against
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPUser*] | list[dict[str, Any]]

users_heartbeat()

?

Return type
dict[str, str]

users_statistics(*context='data'*)

Get user statistics from the MISP instance

Parameters
context (str) – one of 'data', 'orgs', 'users', 'tags', 'attributehistogram', 'sightings', 'galaxyMatrix'

Return type
dict[str, Any] | list[dict[str, Any]]

values_in_warninglist(*value*)

Check if IOC values are in warninglist

Parameters
value (Iterable[str]) – iterator with values to check

Return type
dict[str, Any] | list[dict[str, Any]]

property version: dict[str, Any] | list[dict[str, Any]]

Returns the version of PyMISP you're currently using

warninglists(*pythonify=False*)

Get all the warninglists: https://www.misp-project.org/openapi/#tag/Warninglists/operation/getWarninglists

Parameters

pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type

dict[str, Any] | list[*MISPWarninglist*]

exception pymisp.**PyMISPError**(*message*)

exception pymisp.**PyMISPInvalidFormat**(*message*)

class pymisp.**ThreatLevel**(**values*)

exception pymisp.**UnknownMISPObjectTemplate**(*message*)

Exception raised when the template is unknown

pymisp.**register_user**(*misp_url*, *email*, *organisation=None*, *org_id=None*, *org_name=None*, *message=None*, *custom_perms=None*, *perm_sync=False*, *perm_publish=False*, *perm_admin=False*, *verify=True*)

Ask for the creation of an account for the user with the given email address

Return type

dict[str, Any] | list[dict[str, Any]]

3.1 PyMISP

class pymisp.**PyMISP**(*url*, *key*, *ssl=True*, *debug=False*, *proxies=None*, *cert=None*, *auth=None*, *tool=''*, *timeout=None*, *http_headers=None*, *https_adapter=None*, *http_auth_header_name='Authorization'*)

Python API for MISP

Parameters

- **url** (str) – URL of the MISP instance you want to connect to
- **key** (str) – API key of the user you want to use
- **ssl** (bool | str) – can be True or False (to check or to not check the validity of the certificate. Or a CA_BUNDLE in case of self signed or other certificate (the concatenation of all the crt of the chain)
- **debug** (bool) – Write all the debug information to stderr
- **proxies** (MutableMapping[str, str] | None) – Proxy dict, as described here: http://docs.python-requests.org/en/master/user/advanced/#proxies
- **cert** (str | tuple[str, str] | None) – Client certificate, as described here: http://docs.python-requests.org/en/master/user/advanced/#client-side-certificates
- **auth** (AuthBase | None) – The auth parameter is passed directly to requests, as described here: http://docs.python-requests.org/en/master/user/authentication/
- **tool** (str) – The software using PyMISP (string), used to set a unique user-agent
- **http_headers** (dict[str, str] | None) – Arbitrary headers to pass to all the requests.
- **https_adapter** (BaseAdapter | None) – Arbitrary HTTPS adapter for the requests session.

- **http_auth_header_name** (str) – The name of the HTTP header to use for the API key. Can be either "Authorization" or "X-MISP-AUTH".
- **timeout** (float | tuple[float, float] | None) – Timeout, as described here: https://requests.readthedocs.io/en/master/user/advanced/#timeouts

accept_attribute_proposal(*proposal*)

Accept a proposal. You cannot modify an existing proposal, only accept/discard

Parameters
proposal (*MISPShadowAttribute* | int | str | UUID) – attribute proposal to accept

Return type
dict[str, Any] | list[dict[str, Any]]

accept_event_delegation(*delegation*, *pythonify=False*)

Accept the delegation of an event

Parameters

- **delegation** (*MISPEventDelegation* | int | str) – event delegation to accept
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | list[dict[str, Any]]

accept_user_registration(*registration*, *organisation=None*, *role=None*, *perm_sync=False*, *perm_publish=False*, *perm_admin=False*, *unsafe_fallback=False*)

Accept a user registration

Parameters

- **registration** (*MISPInbox* | int | str | UUID) – the registration to accept
- **organisation** (*MISPOrganisation* | int | str | UUID | None) – user organization
- **role** (*MISPRole* | int | str | None) – user role
- **perm_sync** (bool) – indicator for sync
- **perm_publish** (bool) – indicator for publish
- **perm_admin** (bool) – indicator for admin
- **unsafe_fallback** (bool) – indicator for unsafe fallback

Return type
dict[str, Any] | list[dict[str, Any]]

add_analyst_data(*analyst_data*, *pythonify=False*)

Add an analyst data to an existing MISP element

Parameters

- **analyst_data** (*MISPNote* | *MISPOpinion* | *MISPRelationship*) – analyst_data to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNote* | *MISPOpinion* | *MISPRelationship*

add_attribute(*event*, *attribute*, *pythonify=False*, *break_on_duplicate=True*)

Add an attribute to an existing MISP event: https://www.misp-project.org/openapi/#tag/Attributes/operation/addAttribute

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to extend
- **attribute** (*MISPAttribute* | Iterable[str]) – attribute or (MISP version 2.4.113+) list of attributes to add. If a list is passed, the pythonified response is a dict with the following structure: {'attributes': [MISPAttribute], 'errors': {errors by attributes}}
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **break_on_duplicate** (bool) – if False, do not fail if the attribute already exists, updates existing attribute instead (timestamp will be always updated)

Return type
dict[str, Any] | *MISPAttribute* | *MISPShadowAttribute*

add_attribute_proposal(*event*, *attribute*, *pythonify=False*)

Propose a new attribute in an event

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to receive new attribute
- **attribute** (*MISPAttribute*) – attribute to propose
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPShadowAttribute*

add_correlation_exclusion(*correlation_exclusion*, *pythonify=False*)

Add a new correlation exclusion

Parameters

- **correlation_exclusion** (*MISPCorrelationExclusion*) – correlation exclusion to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPCorrelationExclusion*

add_event(*event*, *pythonify=False*, *metadata=False*)

Add a new event on a MISP instance: https://www.misp-project.org/openapi/#tag/Events/operation/addEvent

Parameters

- **event** (*MISPEvent*) – event to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **metadata** (bool) – Return just event metadata after successful creating

Return type
dict[str, Any] | *MISPEvent*

add_event_blocklist(*uuids*, *comment=None*, *event_info=None*, *event_orgc=None*)

Add a new event in the blocklist

Parameters

- **uuids** (str | list[str]) – UUIDs
- **comment** (str | None) – comment

- **event_info** (str | None) – event information
- **event_orgc** (str | None) – event organization

Return type
dict[str, Any] | list[dict[str, Any]]

add_event_report(*event*, *event_report*, *pythonify=False*)

Add an event report to an existing MISP event

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to extend
- **event_report** (*MISPEventReport*) – event report to add.
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEventReport*

add_feed(*feed*, *pythonify=False*)

Add a new feed on a MISP instance: https://www.misp-project.org/openapi/#tag/Feeds/operation/addFeed

Parameters

- **feed** (*MISPFeed*) – feed to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

add_galaxy_cluster(*galaxy*, *galaxy_cluster*, *pythonify=False*)

Add a new galaxy cluster to a MISP Galaxy: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/addGalaxyCluster

Parameters

- **galaxy** (*MISPGalaxy* | str | UUID) – A MISPGalaxy (or UUID) where you wish to add the galaxy cluster
- **galaxy_cluster** (*MISPGalaxyCluster*) – A MISPGalaxyCluster you wish to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxyCluster*

add_galaxy_cluster_relation(*galaxy_cluster_relation*)

Add a galaxy cluster relation, cluster relation must include cluster UUIDs in both directions

Parameters
galaxy_cluster_relation (*MISPGalaxyClusterRelation*) – The MISPGalaxyClusterRelation to add

Return type
dict[str, Any] | list[dict[str, Any]]

add_note(*note*, *pythonify=False*)

Add a note to an existing MISP element

Parameters

- **note** (*MISPNote*) – note to add

- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNote*

add_object(*event*, *misp_object*, *pythonify=False*, *break_on_duplicate=False*)

Add a MISP Object to an existing MISP event: https://www.misp-project.org/openapi/#tag/Objects/operation/addObject

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to extend
- **misp_object** (*MISPObject*) – object to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **break_on_duplicate** (bool) – if True, check and reject if this object's attributes match an existing object's attributes; may require much time

Return type
dict[str, Any] | *MISPObject*

add_object_reference(*misp_object_reference*, *pythonify=False*)

Add a reference to an object

Parameters

- **misp_object_reference** (*MISPObjectReference*) – object reference
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPObjectReference*

add_opinion(*opinion*, *pythonify=False*)

Add an opinion to an existing MISP element

Parameters

- **opinion** (*MISPOpinion*) – opinion to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOpinion*

add_org_to_sharing_group(*sharing_group*, *organisation*, *extend=False*)

Add an organisation to a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/addOrganisationToSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – Sharing group's local instance ID, or Sharing group's global UUID
- **organisation** (*MISPOrganisation* | int | str | UUID) – Organisation's local instance ID, or Organisation's global UUID, or Organisation's name as known to the curent instance
- **extend** (bool) – Allow the organisation to extend the group

Return type
dict[str, Any] | list[dict[str, Any]]

add_organisation(*organisation*, *pythonify=False*)

Add an organisation: https://www.misp-project.org/openapi/#tag/Organisations/operation/addOrganisation

Parameters

- **organisation** (*MISPOrganisation*) – organization to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOrganisation*

add_organisation_blocklist(*uuids*, *comment=None*, *org_name=None*)

Add a new organisation in the blocklist

Parameters

- **uuids** (str | list[str]) – UUIDs
- **comment** (str | None) – comment
- **org_name** (str | None) – organization name

Return type
dict[str, Any] | list[dict[str, Any]]

add_relationship(*relationship*, *pythonify=False*)

Add a relationship to an existing MISP element

Parameters

- **relationship** (*MISPRelationship*) – relationship to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPRelationship*

add_role(*role*, *pythonify=False*)

Add a new role

Parameters

- **role** (*MISPRole*) – role to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPRole*

add_server(*server*, *pythonify=False*)

Add a server to synchronise with: https://www.misp-project.org/openapi/#tag/Servers/operation/getServers Note: You probably want to use PyMISP.get_sync_config and PyMISP.import_server instead

Parameters

- **server** (*MISPServer*) – sync server config
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPServer*

add_server_to_sharing_group(*sharing_group*, *server*, *all_orgs=False*)

Add a server to a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/addServerToSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – Sharing group's local instance ID, or Sharing group's global UUID
- **server** (*MISPServer* | int | str | UUID) – Server's local instance ID, or URL of the Server, or Server's name as known to the curent instance
- **all_orgs** (bool) – Add all the organisations of the server to the group

Return type
dict[str, Any] | list[dict[str, Any]]

add_sharing_group(*sharing_group*, *pythonify=False*)

Add a new sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/addSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup*) – sharing group to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPSharingGroup*

add_sighting(*sighting*, *attribute=None*, *pythonify=False*)

Add a new sighting (globally, or to a specific attribute): https://www.misp-project.org/openapi/#tag/Sightings/operation/addSighting and https://www.misp-project.org/openapi/#tag/Sightings/operation/getSightingsByEventId

Parameters

- **sighting** (*MISPSighting* | dict[str, Any]) – sighting to add
- **attribute** (*MISPAttribute* | int | str | UUID | None) – specific attribute to modify with the sighting
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPSighting*

add_tag(*tag*, *pythonify=False*)

Add a new tag on a MISP instance: https://www.misp-project.org/openapi/#tag/Tags/operation/addTag The user calling this method needs the Tag Editor permission. It doesn't add a tag to an event, simply creates it on the MISP instance.

Parameters

- **tag** (*MISPTag*) – tag to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTag*

add_user(*user*, *pythonify=False*)

Add a new user: https://www.misp-project.org/openapi/#tag/Users/operation/addUser

Parameters

- **user** (*MISPUser*) – user to add
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPUser*

attach_galaxy_cluster(*misp_entity*, *galaxy_cluster*, *local=False*, *pythonify=False*)

Attach a galaxy cluster to an event or an attribute

Parameters

- **misp_entity** (*MISPEvent* | *MISPAttribute*) – a MISP Event or a MISP Attribute
- **galaxy_cluster** (*MISPGalaxyCluster* | int | str) – Galaxy cluster to attach
- **local** (bool) – whether the object should be attached locally or not to the target
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | list[dict[str, Any]]

attribute_exists(*attribute*)

Fast check if attribute exists.

Parameters
attribute (*MISPAttribute* | int | str | UUID) – Attribute to check

Return type
bool

attribute_proposals(*event=None*, *pythonify=False*)

Get all the attribute proposals

Parameters

- **event** (*MISPEvent* | int | str | UUID | None) – event
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPShadowAttribute*] | list[dict[str, Any]]

attributes(*pythonify=False*)

Get all the attributes from the MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/getAttributes

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPAttribute*] | list[dict[str, Any]]

attributes_statistics(*context='type'*, *percentage=False*)

Get attribute statistics from the MISP instance

Parameters

- **context** (str) – "type" or "category"

- **percentage** (bool) – get percentages

Return type
dict[str, Any] | list[dict[str, Any]]

build_complex_query(*or_parameters=None*, *and_parameters=None*, *not_parameters=None*)

Build a complex search query. MISP expects a dictionary with AND, OR and NOT keys.

Return type
dict[str, list[TypeVar(SearchType, str, int)]]

cache_all_feeds()

Cache all the feeds: https://www.misp-project.org/openapi/#tag/Feeds/operation/cacheFeeds

Return type
dict[str, Any] | list[dict[str, Any]]

cache_feed(*feed*)

Cache a specific feed by id: https://www.misp-project.org/openapi/#tag/Feeds/operation/cacheFeeds

Parameters
feed (*MISPFeed* | int | str | UUID) – feed to cache

Return type
dict[str, Any] | list[dict[str, Any]]

cache_freetext_feeds()

Cache all the freetext feeds

Return type
dict[str, Any] | list[dict[str, Any]]

cache_misp_feeds()

Cache all the MISP feeds

Return type
dict[str, Any] | list[dict[str, Any]]

change_sharing_group_on_entity(*misp_entity*, *sharing_group_id*, *pythonify=False*)

Change the sharing group of an event, an attribute, or an object

Parameters

- **misp_entity** (*MISPEvent* | *MISPAttribute* | *MISPObject*) – entity to change
- **sharing_group_id** (int) – group to change
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEvent* | *MISPObject* | *MISPAttribute* | *MISPShadowAttribute*

change_user_password(*new_password*)

Change the password of the curent user:

Parameters
new_password (str) – password to set

Return type
dict[str, Any] | list[dict[str, Any]]

clean_correlation_exclusions()

Initiate correlation exclusions cleanup

Return type
dict[str, Any] | list[dict[str, Any]]

communities(*pythonify=False*)

Get all the communities

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[MISPCommunity] | list[dict[str, Any]]

compare_feeds()

Generate the comparison matrix for all the MISP feeds

Return type
dict[str, Any] | list[dict[str, Any]]

contact_event_reporter(*event*, *message*)

Send a message to the reporter of an event

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event with reporter to contact
- **message** (str) – message to send

Return type
dict[str, Any] | list[dict[str, Any]]

correlation_exclusions(*pythonify=False*)

Get all the correlation exclusions

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPCorrelationExclusion*] | list[dict[str, Any]]

db_schema_diagnostic()

Get the schema diagnostic

Return type
dict[str, Any] | list[dict[str, Any]]

decaying_models(*pythonify=False*)

Get all the decaying models

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output

Return type
dict[str, Any] | list[*MISPDecayingModel*] | list[dict[str, Any]]

delegate_event(*event=None*, *organisation=None*, *event_delegation=None*, *distribution=-1*, *message=''*, *pythonify=False*)

Delegate an event. Either event and organisation OR event_delegation are required

Parameters

- **event** (*MISPEvent* | int | str | UUID | None) – event to delegate
- **organisation** (*MISPOrganisation* | int | str | UUID | None) – organization
- **event_delegation** (*MISPEventDelegation* | None) – event delegation
- **distribution** (int) – distribution == -1 means recipient decides
- **message** (str) – message
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEventDelegation*

delete_analyst_data(*analyst_data*)

Delete an analyst data from a MISP instance

Parameters
analyst_data (*MISPNote* | *MISPOpinion* | *MISPRelationship* | int | str | UUID) – analyst data to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_attribute(*attribute*, *hard=False*)

Delete an attribute from a MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/deleteAttribute

Parameters

- **attribute** (*MISPAttribute* | int | str | UUID) – attribute to delete
- **hard** (bool) – flag for hard delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_attribute_proposal(*attribute*)

Propose the deletion of an attribute

Parameters
attribute (*MISPAttribute* | int | str | UUID) – attribute to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_correlation_exclusion(*correlation_exclusion*)

Delete a correlation exclusion

Parameters
correlation_exclusion (*MISPCorrelationExclusion* | int | str | UUID) – The MISPCorrelationExclusion you wish to delete from MISP

Return type
dict[str, Any] | list[dict[str, Any]]

delete_event(*event*)

Delete an event from a MISP instance: https://www.misp-project.org/openapi/#tag/Events/operation/deleteEvent

Parameters
event (*MISPEvent* | int | str | UUID) – event to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_event_blocklist(*event_blocklist*)

Delete a blocklisted event by id

Parameters
event_blocklist (*MISPEventBlocklist* | str | UUID) – event block list to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_event_report(*event_report*, *hard=False*)

Delete an event report from a MISP instance

Parameters

- **event_report** (*MISPEventReport* | int | str | UUID) – event report to delete
- **hard** (bool) – flag for hard delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_feed(*feed*)

Delete a feed from a MISP instance

Parameters
feed (*MISPFeed* | int | str | UUID) – feed to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_galaxy_cluster(*galaxy_cluster*, *hard=False*)

Deletes a galaxy cluster from MISP: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/deleteGalaxyCluster

Parameters

- **galaxy_cluster** (*MISPGalaxyCluster* | int | str | UUID) – The MISPGalaxyCluster you wish to delete from MISP
- **hard** (bool) – flag for hard delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_galaxy_cluster_relation(*galaxy_cluster_relation*)

Delete a galaxy cluster relation

Parameters
galaxy_cluster_relation (*MISPGalaxyClusterRelation* | int | str | UUID) – The MISPGalaxyClusterRelation to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_note(*note*)

Delete a note from a MISP instance

Parameters
note (*MISPNote* | int | str | UUID) – note delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_object(*misp_object*, *hard=False*)

Delete an object from a MISP instance: https://www.misp-project.org/openapi/#tag/Objects/operation/deleteObject

Parameters

- **misp_object** (*MISPObject* | int | str | UUID) – object to delete
- **hard** (bool) – flag for hard delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_object_reference(*object_reference*, *hard=False*)

Delete a reference to an object.

Return type
dict[str, Any] | list[dict[str, Any]]

delete_opinion(*opinion*)

Delete an opinion from a MISP instance

Parameters
opinion (*MISPOpinion* | int | str | UUID) – opinion to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_organisation(*organisation*)

Delete an organisation by id: https://www.misp-project.org/openapi/#tag/Organisations/operation/deleteOrganisation

Parameters
organisation (*MISPOrganisation* | int | str | UUID) – organization to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_organisation_blocklist(*organisation_blocklist*)

Delete a blocklisted organisation by id

Parameters
organisation_blocklist (*MISPOrganisationBlocklist* | str | UUID) – organization block list to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_relationship(*relationship*)

Delete a relationship from a MISP instance

Parameters
relationship (*MISPRelationship* | int | str | UUID) – relationship to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_role(*role*)

Delete a role

Parameters
role (*MISPRole* | int | str | UUID) – role to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_server(*server*)

Delete a sync server: https://www.misp-project.org/openapi/#tag/Servers/operation/getServers

Parameters
server (*MISPServer* | int | str | UUID) – sync server config

Return type
dict[str, Any] | list[dict[str, Any]]

delete_sharing_group(*sharing_group*)

Delete a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/deleteSharingGroup

Parameters
sharing_group (*MISPSharingGroup* | int | str | UUID) – sharing group to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_sighting(*sighting*)

Delete a sighting from a MISP instance: https://www.misp-project.org/openapi/#tag/Sightings/operation/deleteSighting

Parameters
sighting (*MISPSighting* | int | str | UUID) – sighting to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_tag(*tag*)

Delete a tag from a MISP instance: https://www.misp-project.org/openapi/#tag/Tags/operation/deleteTag

Parameters
tag (*MISPTag* | int | str | UUID) – tag to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_user(*user*)

Delete a user by id: https://www.misp-project.org/openapi/#tag/Users/operation/deleteUser

Parameters
user (*MISPUser* | int | str | UUID) – user to delete

Return type
dict[str, Any] | list[dict[str, Any]]

delete_user_setting(*user_setting*, *user=None*)

Delete a user setting: https://www.misp-project.org/openapi/#tag/UserSettings/operation/deleteUserSettingById

Parameters

- **user_setting** (str) – name of user setting
- **user** (*MISPUser* | int | str | UUID | None) – user

Return type
dict[str, Any] | list[dict[str, Any]]

property describe_types_local: dict[str, Any] | list[dict[str, Any]]
Returns the content of describe types from the package

property describe_types_remote: dict[str, Any] | list[dict[str, Any]]
Returns the content of describe types from the remote instance

direct_call(*url*, *data=None*, *params={}*, *kw_params={}*)
Very lightweight call that posts a data blob (python dictionary or json string) on the URL

Parameters

- **url** (str) – URL to post to
- **data** (dict[str, Any] | None) – data to post
- **params** (Mapping[str, Any]) – dict with parameters for request
- **kw_params** (Mapping[str, Any]) – dict with keyword parameters for request

Return type
Any

disable_decaying_model(*decaying_model*)
Disable a decaying Model

Return type
dict[str, Any] | list[dict[str, Any]]

disable_feed(*feed*, *pythonify=False*)
Disable a feed: https://www.misp-project.org/openapi/#tag/Feeds/operation/disableFeed

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to disable
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

disable_feed_cache(*feed*, *pythonify=False*)
Disable the caching of a feed

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to disable caching
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

disable_noticelist(*noticelist*)
Disable a noticelist by id

Parameters
noticelist (*MISPNoticelist* | int | str | UUID) – Noticelist to disable

Return type
dict[str, Any] | list[dict[str, Any]]

disable_tag(*tag*, *pythonify=False*)

Disable a tag

Parameters

- **tag** (*MISPTag*) – tag to disable
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTag*

disable_taxonomy(*taxonomy*)

Disable a taxonomy: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/disableTaxonomy

Parameters
taxonomy (*MISPTaxonomy* | int | str | UUID) – taxonomy to disable

Return type
dict[str, Any] | list[dict[str, Any]]

disable_taxonomy_tags(*taxonomy*)

Disable all the tags of a taxonomy

Parameters
taxonomy (*MISPTaxonomy* | int | str | UUID) – taxonomy with tags to disable

Return type
dict[str, Any] | list[dict[str, Any]]

disable_warninglist(*warninglist*)

Disable a warninglist

Parameters
warninglist (*MISPWarninglist* | int | str | UUID) – warninglist to disable

Return type
dict[str, Any] | list[dict[str, Any]]

discard_attribute_proposal(*proposal*)

Discard a proposal. You cannot modify an existing proposal, only accept/discard

Parameters
proposal (*MISPShadowAttribute* | int | str | UUID) – attribute proposal to discard

Return type
dict[str, Any] | list[dict[str, Any]]

discard_event_delegation(*delegation*, *pythonify=False*)

Discard the delegation of an event

Parameters

- **delegation** (*MISPEventDelegation* | int | str) – event delegation to discard
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | list[dict[str, Any]]

discard_user_registration(*registration*)

Discard a user registration

Parameters
registration (*MISPInbox* | int | str | UUID) – the registration to discard

Return type
dict[str, Any] | list[dict[str, Any]]

enable_decaying_model(*decaying_model*)

Enable a decaying Model

Return type
dict[str, Any] | list[dict[str, Any]]

enable_feed(*feed*, *pythonify=False*)

Enable a feed; fetching it will create event(s): https://www.misp-project.org/openapi/#tag/Feeds/operation/enableFeed

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to enable
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

enable_feed_cache(*feed*, *pythonify=False*)

Enable the caching of a feed

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to enable caching
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

enable_noticelist(*noticelist*)

Enable a noticelist by id: https://www.misp-project.org/openapi/#tag/Noticelists/operation/toggleEnableNoticelist

Parameters
noticelist (*MISPNoticelist* | int | str | UUID) – Noticelist to enable

Return type
dict[str, Any] | list[dict[str, Any]]

enable_tag(*tag*, *pythonify=False*)

Enable a tag

Parameters

- **tag** (*MISPTag*) – tag to enable
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTag*

enable_taxonomy(*taxonomy*)

Enable a taxonomy: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/enableTaxonomy

Parameters
taxonomy (*MISPTaxonomy* | int | str | UUID) – taxonomy to enable

Return type
dict[str, Any] | list[dict[str, Any]]

enable_taxonomy_tags(*taxonomy*)

Enable all the tags of a taxonomy. NOTE: this is automatically done when you call enable_taxonomy

Parameters
taxonomy (*MISPTaxonomy* | int | str | UUID) – taxonomy with tags to enable

Return type
dict[str, Any] | list[dict[str, Any]]

enable_warninglist(*warninglist*)

Enable a warninglist

Parameters
warninglist (*MISPWarninglist* | int | str | UUID) – warninglist to enable

Return type
dict[str, Any] | list[dict[str, Any]]

enrich_attribute(*attribute*, *enrich_with*)

Enrich an attribute with data from one or more module.

Parameters

- **attribute** (*MISPAttribute* | int | str | UUID) – attribute to enrich
- **enrich_with** (str | list[str]) – module name or list of module names to use for enrichment

Return type
dict[str, Any]

enrich_event(*event*, *enrich_with*)

Enrich an event with data from one or more module.

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to enrich
- **enrich_with** (str | list[str]) – module name or list of module names to use for enrichment

Return type
dict[str, Any]

event_blocklists(*pythonify=False*)

Get all the blocklisted events

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPEventBlocklist*] | list[dict[str, Any]]

event_delegations(*pythonify=False*)

Get all the event delegations

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPEventDelegation*] | list[dict[str, Any]]

event_exists(*event*)

Fast check if event exists.

Parameters
event (*MISPEvent* | int | str | UUID) – Event to check

Return type
bool

events(*pythonify=False*)

Get all the events from the MISP instance: https://www.misp-project.org/openapi/#tag/Events/operation/getEvents

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPEvent*] | list[dict[str, Any]]

feeds(*pythonify=False*)

Get the list of existing feeds: https://www.misp-project.org/openapi/#tag/Feeds/operation/getFeeds

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPFeed*] | list[dict[str, Any]]

fetch_feed(*feed*)

Fetch one single feed by id: https://www.misp-project.org/openapi/#tag/Feeds/operation/fetchFromFeed

Parameters
feed (*MISPFeed* | int | str | UUID) – feed to fetch

Return type
dict[str, Any] | list[dict[str, Any]]

fork_galaxy_cluster(*galaxy*, *galaxy_cluster*, *pythonify=False*)

Forks an existing galaxy cluster, creating a new one with matching attributes

Parameters

- **galaxy** (*MISPGalaxy* | int | str | UUID) – The galaxy (or galaxy ID) where the cluster you want to fork resides
- **galaxy_cluster** (*MISPGalaxyCluster*) – The galaxy cluster you wish to fork
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxyCluster*

freetext(*event*, *string*, *adhereToWarninglists=False*, *distribution=None*, *returnMetaAttributes=False*, *pythonify=False*, ***kwargs*)

Pass a text to the freetext importer

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event
- **string** (str) – query
- **adhereToWarninglists** (bool | str) – flag
- **distribution** (int | None) – distribution == -1 means recipient decides
- **returnMetaAttributes** (bool) – flag
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **kwargs** – kwargs passed to prepare_request

Return type
dict[str, Any] | list[*MISPAttribute*] | list[dict[str, Any]]

galaxies(*withCluster=False*, *pythonify=False*)

Get all the galaxies: https://www.misp-project.org/openapi/#tag/Galaxies/operation/getGalaxies

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPGalaxy*] | list[dict[str, Any]]

get_all_functions(*not_implemented=False*)

Get all methods available via the API, including ones that are not implemented.

Return type
list[str]

get_analyst_data(*analyst_data*, *pythonify=False*)

Get an analyst data from a MISP instance

Parameters

- **analyst_data** (MISPAnalystData | int | str | UUID) – analyst data to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPNote* | *MISPOpinion* | *MISPRelationship*

get_attribute(*attribute*, *pythonify=False*)

Get an attribute from a MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/getAttributeById

Parameters

- **attribute** (*MISPAttribute* | int | str | UUID) – attribute to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPAttribute*

get_attribute_proposal(*proposal*, *pythonify=False*)

Get an attribute proposal

Parameters

- **proposal** (*MISPShadowAttribute* | int | str | UUID) – proposal to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPShadowAttribute*

get_community(*community*, *pythonify=False*)

Get a community by id from a MISP instance

Parameters

- **community** (MISPCommunity | int | str | UUID) – community to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | MISPCommunity

get_correlation_exclusion(*correlation_exclusion*, *pythonify=False*)

Get a correlation exclusion by ID

Parameters

- **correlation_exclusion** (*MISPCorrelationExclusion* | int | str | UUID) – Correlation exclusion to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPCorrelationExclusion*

get_event(*event*, *deleted=False*, *extended=False*, *pythonify=False*)

Get an event from a MISP instance. Includes collections like Attribute, EventReport, Feed, Galaxy, Object, Tag, etc. so the response size may be large : https://www.misp-project.org/openapi/#tag/Events/operation/getEventById

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to get
- **deleted** (bool | int | list[int]) – whether to include soft-deleted attributes
- **extended** (bool | int) – whether to get extended events
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPEvent*

get_event_report(*event_report*, *pythonify=False*)

Get an event report from a MISP instance

Parameters

- **event_report** (*MISPEventReport* | int | str | UUID) – event report to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPEventReport*

get_event_reports(*event_id*, *pythonify=False*)

Get event report from a MISP instance that are attached to an event ID

Parameters

- **event_id** (int | str) – event id to get the event reports for
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output.

Return type
dict[str, Any] | list[*MISPEventReport*] | list[dict[str, Any]]

get_feed(*feed*, *pythonify=False*)

Get a feed by id: https://www.misp-project.org/openapi/#tag/Feeds/operation/getFeedById

Parameters

- **feed** (*MISPFeed* | int | str | UUID) – feed to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

get_galaxy(*galaxy*, *withCluster=False*, *pythonify=False*)

Get a galaxy by id: https://www.misp-project.org/openapi/#tag/Galaxies/operation/getGalaxyById

Parameters

- **galaxy** (*MISPGalaxy* | int | str | UUID) – galaxy to get
- **withCluster** (bool) – Include the clusters associated with the galaxy
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxy*

get_galaxy_cluster(*galaxy_cluster*, *pythonify=False*)

Gets a specific galaxy cluster

Parameters

- **galaxy_cluster** (*MISPGalaxyCluster* | int | str | UUID) – The MISPGalaxyCluster you want to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxyCluster*

get_new_authkey(*user='me'*)

Get a new authorization key for a specific user, defaults to user doing the call: https://www.misp-project.org/openapi/#tag/AuthKeys/operation/addAuthKey

Parameters
user (*MISPUser* | int | str | UUID) – The owner of the key

Return type
str

get_note(*note*, *pythonify=False*)

Get a note from a MISP instance

Parameters

- **note** (*MISPNote*) – note to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPNote*

get_noticelist(*noticelist*, *pythonify=False*)

Get a noticelist by id: https://www.misp-project.org/openapi/#tag/Noticelists/operation/getNoticelistById

Parameters

- **notistlist** – Noticelist to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNoticelist*

get_object(*misp_object*, *pythonify=False*)

Get an object from the remote MISP instance: https://www.misp-project.org/openapi/#tag/Objects/operation/getObjectById

Parameters

- **misp_object** (*MISPObject* | int | str | UUID) – object to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPObject*

get_object_template(*object_template*, *pythonify=False*)

Gets the full object template

Parameters

- **object_template** (*MISPObjectTemplate* | int | str | UUID) – template or ID to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPObjectTemplate*

get_opinion(*opinion*, *pythonify=False*)

Get an opinion from a MISP instance

Parameters

- **opinion** (*MISPOpinion*) – opinion to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPOpinion*

get_organisation(*organisation*, *pythonify=False*)

Get an organisation by id: https://www.misp-project.org/openapi/#tag/Organisations/operation/getOrganisationById

Parameters

- **organisation** (*MISPOrganisation* | int | str | UUID) – organization to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOrganisation*

get_raw_object_template(*uuid_or_name*)

Get a row template. It needs to be present on disk on the MISP instance you're connected to. The response of this method can be passed to MISPObject(<name>, misp_objects_template_custom=<response>)

Return type
dict[str, Any] | list[dict[str, Any]]

get_relationship(*relationship*, *pythonify=False*)

Get a relationship from a MISP instance

Parameters

- **relationship** (*MISPRelationship*) – relationship to get
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | *MISPRelationship*

get_server_setting(*setting*)

Get a setting from the MISP instance

Parameters
setting (str) – server setting name

Return type
dict[str, Any] | list[dict[str, Any]]

get_sharing_group(*sharing_group*, *pythonify=False*)

Get a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/getSharingGroupById

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – sharing group to find
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPSharingGroup*

get_sync_config(*pythonify=False*)

Get the sync server config. WARNING: This method only works if the user calling it is a sync user

Parameters
pythonify (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPServer*

get_tag(*tag*, *pythonify=False*)

Get a tag by id: https://www.misp-project.org/openapi/#tag/Tags/operation/getTagById

Parameters

- **tag** (*MISPTag* | int | str | UUID) – tag to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTag*

get_taxonomy(*taxonomy*, *pythonify=False*)

Get a taxonomy by id or namespace from a MISP instance: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/getTaxonomyById

Parameters

- **taxonomy** (*MISPTaxonomy* | int | str | UUID) – taxonomy to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPTaxonomy*

get_user(*user='me'*, *pythonify=False*, *expanded=False*)

Get a user by id: https://www.misp-project.org/openapi/#tag/Users/operation/getUsers

Parameters

- **user** (*MISPUser* | int | str | UUID) – user to get; *me* means the owner of the API key doing the query
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **expanded** (bool) – Also returns a MISPRole and a MISPUserSetting. Only taken in account if pythonify is True.

Return type
dict[str, Any] | *MISPUser* | tuple[*MISPUser*, *MISPRole*, list[*MISPUserSetting*]]

get_user_setting(*user_setting*, *user=None*, *pythonify=False*)

Get a user setting: https://www.misp-project.org/openapi/#tag/UserSettings/operation/getUserSettingById

Parameters

- **user_setting** (str) – name of user setting
- **user** (*MISPUser* | int | str | UUID | None) – user
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPUserSetting*

get_warninglist(*warninglist*, *pythonify=False*)

Get a warninglist by id: https://www.misp-project.org/openapi/#tag/Warninglists/operation/getWarninglistById

Parameters

- **warninglist** (*MISPWarninglist* | int | str | UUID) – warninglist to get
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPWarninglist*

get_workers()

Get all the workers

Return type
dict[str, Any] | list[dict[str, Any]]

import_server(*server*, *pythonify=False*)

Import a sync server config received from get_sync_config

Parameters

- **server** (*MISPServer*) – sync server config
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPServer*

kill_all_workers()

Kill all the workers

Return type
dict[str, Any] | list[dict[str, Any]]

load_default_feeds()

Load all the default feeds.

Return type
dict[str, Any] | list[dict[str, Any]]

property misp_instance_version: dict[str, Any] | list[dict[str, Any]]

Returns the version of the instance.

property misp_instance_version_master: dict[str, Any] | list[dict[str, Any]]

Get the most recent version from github

noticelists(*pythonify=False*)

Get all the noticelists: https://www.misp-project.org/openapi/#tag/Noticelists/operation/getNoticelists

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPNoticelist*] | list[dict[str, Any]]

object_exists(*misp_object*)

Fast check if object exists.

Parameters
misp_object (*MISPObject* | int | str | UUID) – Attribute to check

Return type
bool

object_templates(*pythonify=False*)

Get all the object templates

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPObjectTemplate*] | list[dict[str, Any]]

organisation_blocklists(*pythonify=False*)

Get all the blocklisted organisations

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPOrganisationBlocklist*] | list[dict[str, Any]]

organisation_exists(*organisation*)

Fast check if organisation exists.

Parameters
organisation (*MISPOrganisation* | int | str | UUID) – Organisation to check

Return type
bool

organisations(*scope='local'*, *search=None*, *pythonify=False*)

Get all the organisations: https://www.misp-project.org/openapi/#tag/Organisations/operation/getOrganisations

Parameters

- **scope** (str) – scope of organizations to get
- **search** (str | None) – The search to make against the list of organisations
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPOrganisation*] | list[dict[str, Any]]

publish(*event*, *alert=False*)

Publish the event with one single HTTP POST: https://www.misp-project.org/openapi/#tag/Events/operation/publishEvent

Parameters

- **event** (*MISPEvent* | int | str | UUID) – event to publish
- **alert** (bool) – whether to send an email. The default is to not send a mail as it is assumed this method is called on update.

Return type
dict[str, Any] | list[dict[str, Any]]

publish_galaxy_cluster(*galaxy_cluster*)

Publishes a galaxy cluster: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/publishGalaxyCluster

Parameters
galaxy_cluster (*MISPGalaxyCluster* | int | str | UUID) – The galaxy cluster you wish to publish

Return type
dict[str, Any] | list[dict[str, Any]]

push_event_to_ZMQ(*event*)

Force push an event by id on ZMQ

Parameters
event (*MISPEvent* | int | str | UUID) – the event to push

Return type
dict[str, Any] | list[dict[str, Any]]

property pymisp_version_main: dict[str, Any] | list[dict[str, Any]]

Get the most recent version of PyMISP from github

property pymisp_version_master: dict[str, Any] | list[dict[str, Any]]

PyMISP version as defined in the main repository

property recommended_pymisp_version: dict[str, Any] | list[dict[str, Any]]

Returns the recommended API version from the server

remote_acl(*debug_type='findMissingFunctionNames'*)

This should return an empty list, unless the ACL is outdated.

Parameters
debug_type (str) – printAllFunctionNames, findMissingFunctionNames, or printRoleAccess

Return type
dict[str, Any] | list[dict[str, Any]]

remove_org_from_sharing_group(*sharing_group*, *organisation*)

Remove an organisation from a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/removeOrganisationFromSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – Sharing group's local instance ID, or Sharing group's global UUID
- **organisation** (*MISPOrganisation* | int | str | UUID) – Organisation's local instance ID, or Organisation's global UUID, or Organisation's name as known to the curent instance

Return type
dict[str, Any] | list[dict[str, Any]]

remove_server_from_sharing_group(*sharing_group*, *server*)

Remove a server from a sharing group: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/removeServerFromSharingGroup

Parameters

- **sharing_group** (*MISPSharingGroup* | int | str | UUID) – Sharing group's local instance ID, or Sharing group's global UUID
- **server** (*MISPServer* | int | str | UUID) – Server's local instance ID, or URL of the Server, or Server's name as known to the curent instance

Return type
dict[str, Any] | list[dict[str, Any]]

request_community_access(*community*, *requestor_email_address=None*, *requestor_gpg_key=None*, *requestor_organisation_name=None*, *requestor_organisation_uuid=None*, *requestor_organisation_description=None*, *message=None*, *sync=False*, *anonymise_requestor_server=False*, *mock=False*)

Request the access to a community

Parameters

- **community** (MISPCommunity | int | str | UUID) – community to request access
- **requestor_email_address** (str | None) – requestor email
- **requestor_gpg_key** (str | None) – requestor key
- **requestor_organisation_name** (str | None) – requestor org name
- **requestor_organisation_uuid** (str | None) – requestor org ID
- **requestor_organisation_description** (str | None) – requestor org desc
- **message** (str | None) – requestor message
- **sync** (bool) – synchronize flag
- **anonymise_requestor_server** (bool) – anonymise flag
- **mock** (bool) – mock flag

Return type
dict[str, Any] | list[dict[str, Any]]

restart_dead_workers()

Restart the dead workers

Return type
dict[str, Any] | list[dict[str, Any]]

restart_workers()

Restart all the workers

Return type
dict[str, Any] | list[dict[str, Any]]

restore_attribute(*attribute*, *pythonify=False*)

Restore a soft deleted attribute from a MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/restoreAttribute

Parameters
attribute (*MISPAttribute* | int | str | UUID) – attribute to restore

Return type
dict[str, Any] | *MISPAttribute*

roles(*pythonify=False*)

Get the existing roles

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPRole*] | list[dict[str, Any]]

search(*controller='events'*, *return_format='json'*, *limit=None*, *page=None*, *value=None*, *type_attribute=None*, *category=None*, *org=None*, *tags=None*, *event_tags=None*, *quick_filter=None*, *quickFilter=None*, *date_from=None*, *date_to=None*, *eventid=None*, *with_attachments=None*, *withAttachments=None*, *metadata=None*, *uuid=None*, *publish_timestamp=None*, *last=None*, *timestamp=None*, *published=None*, *enforce_warninglist=None*, *enforceWarninglist=None*, *to_ids=None*, *deleted=None*, *include_event_uuid=None*, *includeEventUuid=None*, *include_event_tags=None*, *includeEventTags=None*, *event_timestamp=None*, *sg_reference_only=None*, *eventinfo=None*, *searchall=None*, *requested_attributes=None*, *include_context=None*, *includeContext=None*, *headerless=None*, *include_sightings=None*, *includeSightings=None*, *include_correlations=None*, *includeCorrelations=None*, *include_decay_score=None*, *includeDecayScore=None*, *object_name=None*, *exclude_decayed=None*, *sharinggroup=None*, *pythonify=False*, ***kwargs*)

Search in the MISP instance

Parameters

- **controller** (str) – Controller to search on, it can be *events*, *objects*, *attributes*. The response will either be a list of events, objects, or attributes. Reference documentation for each controller:
  - events: https://www.misp-project.org/openapi/#tag/Events/operation/restSearchEvents
  - attributes: https://www.misp-project.org/openapi/#tag/Attributes/operation/restSearchAttributes
  - objects: N/A
- **return_format** (str) – Set the return format of the search (Currently supported: json, xml, openioc, suricata, snort - more formats are being moved to restSearch with the goal being that all searches happen through this API). Can be passed as the first parameter after restSearch or via the JSON payload.
- **limit** (int | None) – Limit the number of results returned, depending on the scope (for example 10 attributes or 10 full events).
- **page** (int | None) – If a limit is set, sets the page to be returned. page 3, limit 100 will return records 201->300).
- **value** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Search for the given value in the attributes' value field.
- **type_attribute** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – The attribute type, any valid MISP attribute type is accepted.
- **category** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – The attribute category, any valid MISP attribute category is accepted.
- **org** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Search by the creator organisation by supplying the organisation identifier.
- **tags** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Tags to search or to exclude. You can pass a list, or the output of *build_complex_query*
- **event_tags** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Tags to search or to exclude at the event level. You can pass a list, or the output of *build_complex_query*
- **quick_filter** (str | None) – The string passed to this field will ignore all of the other arguments. MISP will return an xml / json (depending on the header sent) of all events that

have a sub-string match on value in the event info, event orgc, or any of the attribute value1 / value2 fields, or in the attribute comment.

- **date_from** (datetime | date | int | str | float | None) – Events with the date set to a date after the one specified. This filter will use the date of the event.
- **date_to** (datetime | date | int | str | float | None) – Events with the date set to a date before the one specified. This filter will use the date of the event.
- **eventid** (TypeVar(SearchType, str, int) | None) – The events that should be included / excluded from the search
- **with_attachments** (bool | None) – If set, encodes the attachments / zipped malware samples as base64 in the data field within each attribute
- **metadata** (bool | None) – Only the metadata (event, tags, relations) is returned, attributes and proposals are omitted.
- **uuid** (str | None) – Restrict the results by uuid.
- **publish_timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Restrict the results by the last publish timestamp (newer than).
- **timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Restrict the results by the timestamp (last edit). Any event with a timestamp newer than the given timestamp will be returned. In case you are dealing with /attributes as scope, the attribute's timestamp will be used for the lookup. The input can be a timestamp or a short-hand time description (7d or 24h for example). You can also pass a list with two values to set a time range (for example ["14d", "7d"]).
- **published** (bool | None) – Set whether published or unpublished events should be returned. Do not set the parameter if you want both.
- **enforce_warninglist** (bool | None) – Remove any attributes from the result that would cause a hit on a warninglist entry.
- **to_ids** (TypeVar(ToIDSType, str, int, bool) | list[TypeVar(ToIDSType, str, int, bool)] | None) – By default all attributes are returned that match the other filter parameters, regardless of their to_ids setting. To restrict the returned data set to to_ids only attributes set this parameter to 1. 0 for the ones with to_ids set to False.
- **deleted** (str | None) – If this parameter is set to 1, it will only return soft-deleted attributes. ["0", "1"] will return the active ones as well as the soft-deleted ones.
- **include_event_uuid** (bool | None) – Instead of just including the event ID, also include the event UUID in each of the attributes.
- **include_event_tags** (bool | None) – Include the event level tags in each of the attributes.
- **event_timestamp** (datetime | date | int | str | float | None) – Only return attributes from events that have received a modification after the given timestamp.
- **sg_reference_only** (bool | None) – If this flag is set, sharing group objects will not be included, instead only the sharing group ID is set.
- **eventinfo** (str | None) – Filter on the event's info field.
- **searchall** (bool | None) – Search for a full or a substring (delimited by % for substrings) in the event info, event tags, attribute tags, attribute values or attribute comment fields.

- **requested_attributes** (str | None) – [CSV only] Select the fields that you wish to include in the CSV export. By setting event level fields additionally, includeContext is not required to get event metadata.
- **include_context** (bool | None) – [Attribute only] Include the event data with each attribute. [CSV output] Add event level metadata in every line of the CSV.
- **headerless** (bool | None) – [CSV Only] The CSV created when this setting is set to true will not contain the header row.
- **include_sightings** (bool | None) – [JSON Only - Attribute] Include the sightings of the matching attributes.
- **include_decay_score** (bool | None) – Include the decay score at attribute level.
- **include_correlations** (bool | None) – [JSON Only - attribute] Include the correlations of the matching attributes.
- **object_name** (str | None) – [objects controller only] Search for objects with that name
- **exclude_decayed** (bool | None) – [attributes controller only] Exclude the decayed attributes from the response
- **sharinggroup** (int | list[int] | None) – Filter by sharing group ID(s)
- **pythonify** (bool | None) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | str | list[*MISPEvent* | *MISPAttribute* | *MISPObject*] | list[dict[str, Any]]

Deprecated:

Parameters

- **quickFilter** (str | None) – synonym for quick_filter
- **withAttachments** (bool | None) – synonym for with_attachments
- **last** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – synonym for publish_timestamp
- **enforceWarninglist** (bool | None) – synonym for enforce_warninglist
- **includeEventUuid** (bool | None) – synonym for include_event_uuid
- **includeEventTags** (bool | None) – synonym for include_event_tags
- **includeContext** (bool | None) – synonym for include_context

search_feeds(*value=None*, *pythonify=False*)

Search in the feeds cached on the servers

Return type
dict[str, Any] | list[*MISPFeed*] | list[dict[str, Any]]

search_galaxy(*value*, *withCluster=False*, *pythonify=False*)

Text search to find a matching galaxy name, namespace, description, or uuid.

Return type
dict[str, Any] | list[*MISPGalaxy*] | list[dict[str, Any]]

search_galaxy_clusters(*galaxy*, *context='all'*, *searchall=None*, *pythonify=False*)

Searches the galaxy clusters within a specific galaxy: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/getGalaxyClusters and https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/getGalaxyClusterById

Parameters

- **galaxy** (*MISPGalaxy* | int | str | UUID) – The MISPGalaxy you wish to search in
- **context** (str) – The context of how you want to search within the **galaxy_**
- **searchall** (str | None) – The search you want to make against the galaxy and context
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | list[*MISPGalaxyCluster*] | list[dict[str, Any]]

search_index(*all=None*, *attribute=None*, *email=None*, *published=None*, *hasproposal=None*, *eventid=None*, *tags=None*, *date_from=None*, *date_to=None*, *eventinfo=None*, *threatlevel=None*, *distribution=None*, *analysis=None*, *org=None*, *timestamp=None*, *publish_timestamp=None*, *sharinggroup=None*, *minimal=None*, *sort=None*, *desc=None*, *limit=None*, *page=None*, *pythonify=None*)

Search event metadata shown on the event index page. Using ! in front of a value means NOT, except for parameters date_from, date_to and timestamp which cannot be negated. Criteria are AND-ed together; values in lists are OR-ed together. Return matching events with metadata but no attributes or objects; also see minimal parameter.

Parameters

- **all** (str | None) – Search for a full or a substring (delimited by % for substrings) in the event info, event tags, attribute tags, attribute values or attribute comment fields.
- **attribute** (str | None) – Filter on attribute's value.
- **email** (str | None) – Filter on user's email.
- **published** (bool | None) – Set whether published or unpublished events should be returned. Do not set the parameter if you want both.
- **hasproposal** (bool | None) – Filter for events containing proposal(s).
- **eventid** (TypeVar(SearchType, str, int) | None) – The events that should be included / excluded from the search
- **tags** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Tags to search or to exclude. You can pass a list, or the output of *build_complex_query*
- **date_from** (datetime | date | int | str | float | None) – Events with the date set to a date after the one specified. This filter will use the date of the event.
- **date_to** (datetime | date | int | str | float | None) – Events with the date set to a date before the one specified. This filter will use the date of the event.
- **eventinfo** (str | None) – Filter on the event's info field.
- **threatlevel** (list[TypeVar(SearchType, str, int)] | None) – Threat level(s) (1,2,3,4) | list
- **distribution** (list[TypeVar(SearchType, str, int)] | None) – Distribution level(s) (0,1,2,3) | list

- **analysis** (list[TypeVar(SearchType, str, int)] | None) – Analysis level(s) (0,1,2) | list
- **org** (TypeVar(SearchParameterTypes, str, List[str | int], Dict[str, str | int]) | None) – Search by the creator organisation by supplying the organisation identifier.
- **timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Restrict the results by the timestamp (last edit). Any event with a timestamp newer than the given timestamp will be returned. In case you are dealing with /attributes as scope, the attribute's timestamp will be used for the lookup.
- **publish_timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Filter on event's publish timestamp.
- **sharinggroup** (list[TypeVar(SearchType, str, int)] | None) – Restrict by a sharing group | list
- **minimal** (bool | None) – Return only event ID, UUID, timestamp, sighting_timestamp and published.
- **sort** (str | None) – The field to sort the events by, such as 'id', 'date', 'attribute_count'.
- **desc** (bool | None) – Whether to sort events ascending (default) or descending.
- **limit** (int | None) – Limit the number of events returned
- **page** (int | None) – If a limit is set, sets the page to be returned. page 3, limit 100 will return records 201->300).
- **pythonify** (bool | None) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPEvent*] | list[dict[str, Any]]

search_logs(*limit=None*, *page=None*, *log_id=None*, *title=None*, *created=None*, *model=None*, *action=None*, *user_id=None*, *change=None*, *email=None*, *org=None*, *description=None*, *ip=None*, *pythonify=False*)

Search in logs

Note: to run substring queries simply append/prepend/encapsulate the search term with %

Parameters

- **limit** (int | None) – Limit the number of results returned, depending on the scope (for example 10 attributes or 10 full events).
- **page** (int | None) – If a limit is set, sets the page to be returned. page 3, limit 100 will return records 201->300).
- **log_id** (int | None) – Log ID
- **title** (str | None) – Log Title
- **created** (datetime | date | int | str | float | None) – Creation timestamp
- **model** (str | None) – Model name that generated the log entry
- **action** (str | None) – The thing that was done
- **user_id** (int | None) – ID of the user doing the action
- **change** (str | None) – Change that occured

- **email** (str | None) – Email of the user
- **org** (str | None) – Organisation of the User doing the action
- **description** (str | None) – Description of the action
- **ip** (str | None) – Origination IP of the User doing the action
- **pythonify** (bool | None) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPLog*] | list[dict[str, Any]]

search_sightings(*context=None*, *context_id=None*, *type_sighting=None*, *date_from=None*, *date_to=None*, *publish_timestamp=None*, *last=None*, *org=None*, *source=None*, *include_attribute=None*, *include_event_meta=None*, *pythonify=False*)

Search sightings

Parameters

- **context** (str | None) – The context of the search. Can be either "attribute", "event", or nothing (will then match on events and attributes).
- **context_id** (TypeVar(SearchType, str, int) | None) – Only relevant if context is either "attribute" or "event". Then it is the relevant ID.
- **type_sighting** (str | None) – Type of sighting
- **date_from** (datetime | date | int | str | float | None) – Events with the date set to a date after the one specified. This filter will use the date of the event.
- **date_to** (datetime | date | int | str | float | None) – Events with the date set to a date before the one specified. This filter will use the date of the event.
- **publish_timestamp** (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – Restrict the results by the last publish timestamp (newer than).
- **org** (TypeVar(SearchType, str, int) | None) – Search by the creator organisation by supplying the organisation identifier.
- **source** (str | None) – Source of the sighting
- **include_attribute** (bool | None) – Include the attribute.
- **include_event_meta** (bool | None) – Include the meta information of the event.

Return type
dict[str, Any] | list[dict[str, *MISPEvent* | *MISPAttribute* | *MISPSighting*]]

Deprecated:

Parameters
last (None | datetime | date | int | str | float | tuple[datetime | date | int | str | float | None, datetime | date | int | str | float | None]) – synonym for publish_timestamp

Example

```
>>> misp.search_sightings(publish_timestamp='30d') # search sightings for the␣
↪last 30 days on the instance
[ ... ]
>>> misp.search_sightings(context='attribute', context_id=6, include_
```

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```
↪attribute=True) # return list of sighting for attribute 6 along with the␣
↪attribute itself
[ ... ]
>>> misp.search_sightings(context='event', context_id=17, include_event_
↪meta=True, org=2) # return list of sighting for event 17 filtered with org id␣
↪2
```

search_tags(*tagname*, *strict_tagname=False*, *pythonify=False*)

Search for tags by name: https://www.misp-project.org/openapi/#tag/Tags/operation/searchTag

Parameters

- **tag_name** – Name to search, use % for substrings matches.
- **strict_tagname** (bool) – only return tags matching exactly the tag name (so skipping synonyms and cluster's value)

Return type

dict[str, Any] | list[*MISPTag*] | list[dict[str, Any]]

server_pull(*server*, *event=None*)

Initialize a pull from a sync server, optionally limited to one event: https://www.misp-project.org/openapi/#tag/Servers/operation/pullServer

Parameters

- **server** (*MISPServer* | int | str | UUID) – sync server config
- **event** (*MISPEvent* | int | str | UUID | None) – event

Return type

dict[str, Any] | list[dict[str, Any]]

server_push(*server*, *event=None*)

Initialize a push to a sync server, optionally limited to one event: https://www.misp-project.org/openapi/#tag/Servers/operation/pushServer

Parameters

- **server** (*MISPServer* | int | str | UUID) – sync server config
- **event** (*MISPEvent* | int | str | UUID | None) – event

Return type

dict[str, Any] | list[dict[str, Any]]

server_settings()

Get all the settings from the server

Return type

dict[str, Any] | list[dict[str, Any]]

servers(*pythonify=False*)

Get the existing servers the MISP instance can synchronise with: https://www.misp-project.org/openapi/#tag/Servers/operation/getServers

Parameters

pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPServer*] | list[dict[str, Any]]

set_default_role(*role*)

Set a default role for the new user accounts

Parameters
role (*MISPRole* | int | str | UUID) – the default role to set

Return type
dict[str, Any] | list[dict[str, Any]]

set_server_setting(*setting*, *value*, *force=False*)

Set a setting on the MISP instance

Parameters

- **setting** (str) – server setting name
- **value** (str | int | bool) – value to set
- **force** (bool) – override value test

Return type
dict[str, Any] | list[dict[str, Any]]

set_user_setting(*user_setting*, *value*, *user=None*, *pythonify=False*)

Set a user setting: https://www.misp-project.org/openapi/#tag/UserSettings/operation/setUserSetting

Parameters

- **user_setting** (str) – name of user setting
- **value** (str | dict[str, Any]) – value to set
- **user** (*MISPUser* | int | str | UUID | None) – user
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPUserSetting*

sharing_group_exists(*sharing_group*)

Fast check if sharing group exists.

Parameters
sharing_group (*MISPSharingGroup* | int | str | UUID) – Sharing group to check

Return type
bool

sharing_groups(*pythonify=False*)

Get the existing sharing groups: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/getSharingGroup

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPSharingGroup*] | list[dict[str, Any]]

sightings(*misp_entity=None*, *org=None*, *pythonify=False*)

Get the list of sightings related to a MISPEvent or a MISPAttribute (depending on type of misp_entity): https://www.misp-project.org/openapi/#tag/Sightings/operation/getSightingsByEventId

Parameters

- **misp_entity** (*AbstractMISP* | None) – MISP entity
- **org** (*MISPOrganisation* | int | str | UUID | None) – MISP organization
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPSighting*] | list[dict[str, Any]]

sign_blob(*blob*)

Sign a blob

Parameters
blob (str) – blob to sign

Return type
str

start_worker(*worker_type*)

Start a worker :type worker_type: str :param worker_type: The type of worker, must be one of the following: "default" "email" "scheduler" "cache" "prio" "update"

Return type
dict[str, Any] | list[dict[str, Any]]

stop_worker_by_pid(*worker_pid*)

Stop a worker by its PID (get the pid with get_workers) :type worker_pid: str | int :param worker_pid: The pid of the worker to stop

Return type
dict[str, Any] | list[dict[str, Any]]

tag(*misp_entity*, *tag*, *local=False*, *relationship_type=None*)

Tag an event or an attribute.

Parameters

- **misp_entity** (*AbstractMISP* | str | dict[str, Any]) – a MISPEvent, a MISP Attribute, or a UUID
- **tag** (*MISPTag* | str | dict[str, Any]) – tag to add
- **local** (bool) – whether to tag locally
- **relationship_type** (str | None) – Type of relationship between the tag and the attribute or event

Return type
dict[str, Any] | list[dict[str, Any]]

tags(*pythonify=False*, ***kw_params*)

Get the list of existing tags: https://www.misp-project.org/openapi/#tag/Tags/operation/getTags

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPTag*]

tags_statistics(*percentage=False*, *name_sort=False*)

Get tag statistics from the MISP instance

Parameters

- **percentage** (bool) – get percentages
- **name_sort** (bool) – sort by name

Return type
dict[str, Any] | list[dict[str, Any]]

taxonomies(*pythonify=False*)

Get all the taxonomies: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/getTaxonomies

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPTaxonomy*] | list[dict[str, Any]]

test_server(*server*)

Test if a sync link is working as expected

Parameters
server (*MISPServer* | int | str | UUID) – sync server config

Return type
dict[str, Any] | list[dict[str, Any]]

toggle_global_pythonify()

Toggle the pythonify variable for the class

Return type
None

toggle_warninglist(*warninglist_id=None*, *warninglist_name=None*, *force_enable=None*)

Toggle (enable/disable) the status of a warninglist by id: https://www.misp-project.org/openapi/#tag/Warninglists/operation/toggleEnableWarninglist

Parameters

- **warninglist_id** (str | int | list[int] | None) – ID of the WarningList
- **warninglist_name** (str | list[str] | None) – name of the WarningList
- **force_enable** (bool | None) – Force the warning list in the enabled state (does nothing if already enabled) - None means toggle.

Return type
dict[str, Any] | list[dict[str, Any]]

unpublish(*event*)

Unpublish the event with one single HTTP POST: https://www.misp-project.org/openapi/#tag/Events/operation/unpublishEvent

Parameters
event (*MISPEvent* | int | str | UUID) – event to unpublish

Return type
dict[str, Any] | list[dict[str, Any]]

untag(*misp_entity*, *tag*)

Untag an event or an attribute

Parameters

- **misp_entity** (*AbstractMISP* | str | dict[str, Any]) – misp_entity can be a UUID
- **tag** (*MISPTag* | str) – tag to remove

Return type
dict[str, Any] | list[dict[str, Any]]

update_analyst_data(*analyst_data*, *analyst_data_id=None*, *pythonify=False*)

Update an analyst data on a MISP instance

Parameters

- **analyst_data** (*MISPNote* | *MISPOpinion* | *MISPRelationship*) – analyst data to update
- **analyst_data_id** (int | None) – analyst data ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNote* | *MISPOpinion* | *MISPRelationship*

update_attribute(*attribute*, *attribute_id=None*, *pythonify=False*)

Update an attribute on a MISP instance: https://www.misp-project.org/openapi/#tag/Attributes/operation/editAttribute

Parameters

- **attribute** (*MISPAttribute*) – attribute to update
- **attribute_id** (int | None) – attribute ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPAttribute* | *MISPShadowAttribute*

update_attribute_proposal(*initial_attribute*, *attribute*, *pythonify=False*)

Propose a change for an attribute

Parameters

- **initial_attribute** (*MISPAttribute* | int | str | UUID) – attribute to change
- **attribute** (*MISPAttribute*) – attribute to propose
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPShadowAttribute*

update_decaying_models()

Update all the Decaying models

Return type
dict[str, Any] | list[dict[str, Any]]

update_event(*event*, *event_id=None*, *pythonify=False*, *metadata=False*)

Update an event on a MISP instance: https://www.misp-project.org/openapi/#tag/Events/operation/editEvent

Parameters

- **event** (*MISPEvent*) – event to update
- **event_id** (int | None) – ID of event to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output
- **metadata** (bool) – Return just event metadata after successful update

Return type
dict[str, Any] | *MISPEvent*

update_event_blocklist(*event_blocklist*, *event_blocklist_id=None*, *pythonify=False*)

Update an event in the blocklist

Parameters

- **event_blocklist** (*MISPEventBlocklist*) – event block list
- **event_blocklist_id** (int | str | UUID | None) – event block lisd id
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEventBlocklist*

update_event_report(*event_report*, *event_report_id=None*, *pythonify=False*)

Update an event report on a MISP instance

Parameters

- **event_report** (*MISPEventReport*) – event report to update
- **event_report_id** (int | None) – event report ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPEventReport*

update_feed(*feed*, *feed_id=None*, *pythonify=False*)

Update a feed on a MISP instance

Parameters

- **feed** (*MISPFeed*) – feed to update
- **feed_id** (int | None) – feed id
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPFeed*

update_galaxies()

Update all the galaxies: https://www.misp-project.org/openapi/#tag/Galaxies/operation/updateGalaxies

Return type
dict[str, Any] | list[dict[str, Any]]

update_galaxy_cluster(*galaxy_cluster*, *pythonify=False*)

Update a custom galaxy cluster: https://www.misp-project.org/openapi/#tag/Galaxy-Clusters/operation/editGalaxyCluster

;param galaxy_cluster: The MISPGalaxyCluster you wish to update :type pythonify: bool :param pythonify: Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPGalaxyCluster*

update_galaxy_cluster_relation(*galaxy_cluster_relation*)

Update a galaxy cluster relation

Parameters
galaxy_cluster_relation (*MISPGalaxyClusterRelation*) – The MISPGalaxyClusterRelation to update

Return type
dict[str, Any] | list[dict[str, Any]]

update_misp()

Trigger a server update

Return type
dict[str, Any] | list[dict[str, Any]]

update_note(*note*, *note_id=None*, *pythonify=False*)

Update a note on a MISP instance

Parameters

- **note** (*MISPNote*) – note to update
- **note_id** (int | None) – note ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPNote*

update_noticelists()

Update all the noticelists: https://www.misp-project.org/openapi/#tag/Noticelists/operation/updateNoticelists

Return type
dict[str, Any] | list[dict[str, Any]]

update_object(*misp_object*, *object_id=None*, *pythonify=False*)

Update an object on a MISP instance

Parameters

- **misp_object** (*MISPObject*) – object to update
- **object_id** (int | None) – ID of object to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPObject*

update_object_templates()

Trigger an update of the object templates

Return type
dict[str, Any] | list[dict[str, Any]]

update_opinion(*opinion*, *opinion_id=None*, *pythonify=False*)

Update an opinion on a MISP instance

Parameters

- **opinion** (*MISPOpinion*) – opinion to update
- **opinion_id** (int | None) – opinion ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOpinion*

update_organisation(*organisation*, *organisation_id=None*, *pythonify=False*)

Update an organisation: https://www.misp-project.org/openapi/#tag/Organisations/operation/editOrganisation

Parameters

- **organisation** (*MISPOrganisation*) – organization to update
- **organisation_id** (int | None) – id to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOrganisation*

update_organisation_blocklist(*organisation_blocklist*, *organisation_blocklist_id=None*, *pythonify=False*)

Update an organisation in the blocklist

Parameters

- **organisation_blocklist** (*MISPOrganisationBlocklist*) – organization block list
- **organisation_blocklist_id** (int | str | UUID | None) – organization block lisd id
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPOrganisationBlocklist*

update_relationship(*relationship*, *relationship_id=None*, *pythonify=False*)

Update a relationship on a MISP instance

Parameters

- **relationship** (*MISPRelationship*) – relationship to update
- **relationship_id** (int | None) – relationship ID to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPRelationship*

update_role(*role*, *role_id=None*, *pythonify=False*)

Update a role on a MISP instance

Parameters

- **role** (*MISPRole*) – role to update
- **role_id** (int | None) – id to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPRole*

update_server(*server*, *server_id=None*, *pythonify=False*)

Update a server to synchronise with: https://www.misp-project.org/openapi/#tag/Servers/operation/getServers

Parameters

- **server** (*MISPServer*) – sync server config
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPServer*

update_sharing_group(*sharing_group*, *sharing_group_id=None*, *pythonify=False*)

Update sharing group parameters: https://www.misp-project.org/openapi/#tag/Sharing-Groups/operation/editSharingGroup

Return type
dict[str, Any] | *MISPSharingGroup*

Parameters
sharing_group (*MISPSharingGroup* | dict[str, Any]) – MISP Sharing Group

:param sharing_group_id Sharing group ID :type pythonify: bool :param pythonify: Returns a PyMISP Object instead of the plain json output

update_tag(*tag*, *tag_id=None*, *pythonify=False*)

Edit only the provided parameters of a tag: https://www.misp-project.org/openapi/#tag/Tags/operation/editTag

Parameters

- **tag** (*MISPTag*) – tag to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Aram tag_id
tag ID to update

Return type
dict[str, Any] | *MISPTag*

update_taxonomies()

Update all the taxonomies: https://www.misp-project.org/openapi/#tag/Taxonomies/operation/updateTaxonomies

Return type
dict[str, Any] | list[dict[str, Any]]

update_user(*user*, *user_id=None*, *pythonify=False*)

Update a user on a MISP instance: https://www.misp-project.org/openapi/#tag/Users/operation/editUser

Parameters

- **user** (*MISPUser*) – user to update
- **user_id** (int | None) – id to update
- **pythonify** (bool) – Returns a PyMISP Object instead of the plain json output

Return type
dict[str, Any] | *MISPUser*

update_warninglists()

Update all the warninglists: https://www.misp-project.org/openapi/#tag/Warninglists/operation/updateWarninglists

Return type
dict[str, Any] | list[dict[str, Any]]

upload_stix(*path=None*, *data=None*, *version='2'*)

Upload a STIX file to MISP.

Parameters

- **path** (str | Path | BytesIO | StringIO | None) – Path to the STIX on the disk (can be a path-like object, or a pseudofile)
- **data** (str | bytes | None) – stix object
- **version** (str) – Can be 1 or 2

Return type
Response

user_registrations(*pythonify=False*)

Get all the user registrations

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPInbox*] | list[dict[str, Any]]

user_settings(*pythonify=False*)

Get all the user settings: https://www.misp-project.org/openapi/#tag/UserSettings/operation/getUserSettings

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPUserSetting*] | list[dict[str, Any]]

users(*search=None*, *organisation=None*, *pythonify=False*)

Get all the users, or a filtered set of users: https://www.misp-project.org/openapi/#tag/Users/operation/getUsers

Parameters

- **search** (str | None) – The search to make against the list of users

- **organisation** (int | None) – The ID of an organisation to filter against
- **pythonify** (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPUser*] | list[dict[str, Any]]

users_heartbeat()

?

Return type
dict[str, str]

users_statistics(*context='data'*)

Get user statistics from the MISP instance

Parameters
context (str) – one of 'data', 'orgs', 'users', 'tags', 'attributehistogram', 'sightings', 'galaxyMatrix'

Return type
dict[str, Any] | list[dict[str, Any]]

values_in_warninglist(*value*)

Check if IOC values are in warninglist

Parameters
value (Iterable[str]) – iterator with values to check

Return type
dict[str, Any] | list[dict[str, Any]]

property version: dict[str, Any] | list[dict[str, Any]]

Returns the version of PyMISP you're currently using

warninglists(*pythonify=False*)

Get all the warninglists: https://www.misp-project.org/openapi/#tag/Warninglists/operation/getWarninglists

Parameters
pythonify (bool) – Returns a list of PyMISP Objects instead of the plain json output. Warning: it might use a lot of RAM

Return type
dict[str, Any] | list[*MISPWarninglist*]

3.2 MISPAbstract

class pymisp.**AbstractMISP**(*force_timestamps=False*)

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

3.3 MISPEncode

class pymisp.**MISPEncode**(**args*, ***kwargs*)

default(*obj*)

Implement this method in a subclass such that it returns a serializable object for o, or calls the base implementation (to raise a TypeError).

For example, to support arbitrary iterators, you could implement default like this:

```
def default(self, o):
    try:
        iterable = iter(o)
    except TypeError:
        pass
    else:
        return list(iterable)
```

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```
    # Let the base class default method raise the TypeError
    return super().default(o)
```

Return type
dict[str, Any] | str

3.4 MISPEvent

class pymisp.**MISPEvent**(*describe_types=None*, *strict_validation=False*, *force_timestamps=False*, ***kwargs*)

add_attribute(*type*, *value*, ***kwargs*)

Add an attribute. type and value are required but you can pass all other parameters supported by MISPAttribute

Return type
MISPAttribute | list[*MISPAttribute*]

add_attribute_tag(*tag*, *attribute_identifier*)

Add a tag to an existing attribute. Raise an Exception if the attribute doesn't exist.

Parameters

- **tag** (*MISPTag* | str) – Tag name as a string, MISPTag instance, or dictionary
- **attribute_identifier** (str) – can be an ID, UUID, or the value.

Return type
list[*MISPAttribute*]

add_cryprographic_key(*parent_type*, *key_data*, *type*, *uuid*, *fingerprint*, *timestamp*, ***kwargs*)

Add a Cryptographic Key. parent_type, key_data, type, uuid, fingerprint, timestamp are required but you can pass all other parameters supported by MISPEventReport

Return type
MISPCryptographicKey

add_event_report(*name*, *content*, ***kwargs*)

Add an event report. name and value are requred but you can pass all other parameters supported by MISPEventReport

Return type
MISPEventReport

add_galaxy(*galaxy=None*, ***kwargs*)

Add a galaxy and sub-clusters into an event, either by passing a MISPGalaxy or a dictionary. Supports all other parameters supported by MISPGalaxy

Return type
MISPGalaxy

add_object(*obj=None*, ***kwargs*)

Add an object to the Event, either by passing a MISPObject, or a dictionary

Return type
MISPObject

add_proposal(*shadow_attribute=None*, ***kwargs*)

Alias for add_shadow_attribute

Return type
MISPShadowAttribute

add_shadow_attribute(*shadow_attribute=None*, ***kwargs*)

Add a tag to the attribute (by name or a MISPTag object)

Return type
MISPShadowAttribute

clear() → None. Remove all items from D.

delete_attribute(*attribute_id*)

Delete an attribute

Parameters
attribute_id (str) – ID or UUID

Return type
None

delete_object(*object_id*)

Delete an object

Parameters
object_id (str) – ID or UUID

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking attribute

Return type
MISPAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking attribute

Return type
MISPAttribute

get_attribute_tag(*attribute_identifier*)

Return the tags associated to an attribute or an object attribute.

Parameters
attribute_identifier (str) – can be an ID, UUID, or the value.

Return type
list[*MISPTag*]

get_object_by_id(*object_id*)

Get an object by ID

Parameters
object_id (str | int) – the ID is the one set by the server when creating the new object

Return type
MISPObject

get_object_by_uuid(*object_uuid*)

Get an object by UUID

Parameters
object_uuid (str) – the UUID is set by the server when creating the new object

Return type
MISPObject

get_objects_by_name(*object_name*)

Get objects by name

Parameters
object_name (str) – name is set by the server when creating the new object

Return type
list[*MISPObject*]

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

load(*json_event*, *validate=False*, *metadata_only=False*)

Load a JSON dump from a pseudo file or a JSON string

Return type
None

load_file(*event_path*, *validate=False*, *metadata_only=False*)

Load a JSON dump from a file on the disk

Return type
None

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

publish()

Mark the attribute as published

Return type
None

set_date(*d=None*, *ignore_invalid=False*)

Set a date for the event

Parameters

- **d** (str | int | float | datetime | date | None) – String, datetime, or date object
- **ignore_invalid** (bool) – if True, assigns current date if d is not an expected type

Return type
None

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

property tags: list[*MISPTag*]

Returns a list of tags associated to this Event

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_feed(*valid_distributions=[0, 1, 2, 3, 4, 5]*, *with_meta=False*, *with_distribution=False*, *with_local_tags=True*, *with_event_reports=True*, *with_cryptographic_keys=True*)

Generate a json output for MISP Feed.

Parameters

- **valid_distributions** (list[int]) – only makes sense if the distribution key is set; i.e., the event is exported from a MISP instance.
- **with_distribution** (bool) – exports distribution and Sharing Group info; otherwise all SharingGroup information is discarded (protecting privacy)
- **with_local_tags** (bool) – tag export includes local exportable tags along with global exportable tags

- **with_event_reports** (bool) – include event reports in the returned MISP event
- **with_cryptographic_keys** (bool) – include the associated cryptographic keys in the returned protected MISP event

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

unpublish()

Mark the attribute as un-published (set publish flag to false)

Return type
None

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.5 MISPEventBlocklist

class pymisp.**MISPEventBlocklist**(*force_timestamps=False*, ***kwargs*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.6 MISPEventDelegation

class pymisp.**MISPEventDelegation**(*force_timestamps=False*, ***kwargs*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.7 MISPAttribute

class pymisp.**MISPAttribute**(*describe_types=None*, *strict=False*)

add_galaxy(*galaxy=None*, ***kwargs*)

Add a galaxy to the Attribute, either by passing a MISPGalaxy or a dictionary

Return type
MISPGalaxy

add_proposal(*shadow_attribute=None*, ***kwargs*)

Alias for add_shadow_attribute

Return type
MISPShadowAttribute

add_shadow_attribute(*shadow_attribute=None*, ***kwargs*)

Add a shadow attribute to the attribute (by name or a MISPShadowAttribute object)

Return type
MISPShadowAttribute

add_sighting(*sighting=None*, ***kwargs*)

Add a sighting to the attribute (by name or a MISPSighting object)

Return type
MISPSighting

clear() → None. Remove all items from D.

delete()

Mark the attribute as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

property galaxies: list[*MISPGalaxy*]

Returns a list of galaxies associated to this Attribute

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

hash_values(*algorithm='sha512'*)

Compute the hash of every value for fast lookups

Return type
list[str]

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

property known_types: list[str]

Returns a list of all the known MISP attributes types

property malware_binary: BytesIO | None

Returns a BytesIO of the malware, if the attribute has one. Decrypts, unpacks and caches the binary on the first invocation, which may require some time for large attachments (~1s/MB).

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

property tags: list[*MISPTag*]

Returns a list of tags associated to this Attribute

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.8 MISPObject

class pymisp.**MISPObject**(*name*, *strict=False*, *standalone=True*, *default_attributes_parameters={}*, *force_timestamps=False*, ***kwargs*)

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: `str` :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: `str` | `int` | `float` | `None` :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.

If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

clear() → None. Remove all items from D.

delete()

Mark the object as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.
If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair
as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.9 MISPObjectAttribute

class pymisp.**MISPObjectAttribute**(*definition*, *force_timestamps=False*)

add_galaxy(*galaxy=None*, ***kwargs*)

Add a galaxy to the Attribute, either by passing a MISPGalaxy or a dictionary

Return type
MISPGalaxy

add_proposal(*shadow_attribute=None*, ***kwargs*)

Alias for add_shadow_attribute

Return type
MISPShadowAttribute

add_shadow_attribute(*shadow_attribute=None*, ***kwargs*)

Add a shadow attribute to the attribute (by name or a MISPShadowAttribute object)

Return type
MISPShadowAttribute

add_sighting(*sighting=None*, ***kwargs*)

Add a sighting to the attribute (by name or a MISPSighting object)

Return type
MISPSighting

clear() → None. Remove all items from D.

delete()

Mark the attribute as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(*object_relation=''*, *value=''*, ***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

property galaxies: list[*MISPGalaxy*]

Returns a list of galaxies associated to this Attribute

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

hash_values(*algorithm='sha512'*)

Compute the hash of every value for fast lookups

Return type
list[str]

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

property known_types: list[str]

Returns a list of all the known MISP attributes types

property malware_binary: BytesIO | None

Returns a BytesIO of the malware, if the attribute has one. Decrypts, unpacks and caches the binary on the first invocation, which may require some time for large attachments (~1s/MB).

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

property tags: list[*MISPTag*]

Returns a list of tags associated to this Attribute

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.10 MISPObjectReference

class pymisp.**MISPObjectReference**

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.11 MISPObjectTemplate

class pymisp.**MISPObjectTemplate**(*force_timestamps=False*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(**kwargs)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.12 MISPTag

class pymisp.**MISPTag**(*force_timestamps=False*, ***kwargs*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.13 MISPUser

class pymisp.**MISPUser**(*force_timestamps=False*, ***kwargs*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.14 MISPUserSetting

class pymisp.**MISPUserSetting**(*force_timestamps=False*, ***kwargs*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.15 MISPOrganisation

class pymisp.**MISPOrganisation**

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([E,]**F) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(*args)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.16 MISPOrganisationBlocklist

class pymisp.MISPOrganisationBlocklist(*force_timestamps=False*, ***kwargs*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(k[, d]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(k[, d]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.17 MISPFeed

class pymisp.**MISPFeed**(*force_timestamps=False*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.18 MISPInbox

class pymisp.**MISPInbox**(*force_timestamps=False*, ***kwargs*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.19 MISPLog

class pymisp.**MISPLog**(*force_timestamps=False*, ***kwargs*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.20 MISPNoticelist

class pymisp.**MISPNoticelist**(*force_timestamps=False*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.21 MISPRole

class pymisp.**MISPRole**(*force_timestamps=False*, ***kwargs*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.22 MISPServer

class pymisp.**MISPServer**(*force_timestamps=False*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.23 MISPShadowAttribute

class pymisp.**MISPShadowAttribute**

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.24 MISPSharingGroup

class pymisp.**MISPSharingGroup**

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.25 MISPSighting

class pymisp.**MISPSighting**

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Initialize the MISPSighting from a dictionary

Parameters

- **value** – Value of the attribute the sighting is related too. Pushing this object will update the sighting count of each attribute with this value on the instance.
- **uuid** – UUID of the attribute to update
- **id** – ID of the attriute to update
- **source** – Source of the sighting
- **type** – Type of the sighting
- **timestamp** – Timestamp associated to the sighting

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.26 MISPTaxonomy

class pymisp.**MISPTaxonomy**(*force_timestamps=False*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

3.27 MISPWarninglist

class pymisp.**MISPWarninglist**(*force_timestamps=False*)

clear() → None. Remove all items from D.

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

CHAPTER

FOUR

PYMISP - TOOLS

class pymisp.tools.**ASNObject**(*parameters*, *strict=True*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**AbstractMISPObjectGenerator**(*name*, *strict=False*, *standalone=True*, *default_attributes_parameters={}*, *force_timestamps=False*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**DataURLObject**(*dataurl*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**DomainIPObject**(*parameters*, *strict=True*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**ELFObject**(*parsed=None*, *filepath=None*, *pseudofile=None*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**ELFSectionObject**(*section*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.Fail2BanObject(*parameters*, *strict=True*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.FileObject(*filepath=None*, *pseudofile=None*, *filename=None*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.GenericObjectGenerator(*name*, *strict=False*, *standalone=True*, *default_attributes_parameters={}*, *force_timestamps=False*, ***kwargs*)

generate_attributes(*attributes*)

Generates MISPObjectAttributes from a list of dictionaries. Each entry if the list must be in one of the two following formats: * {<object_relation>: <value>} * {<object_relation>: {'value'=<value>, 'type'=<type>, <and any other key/value accepted by a MISPAttribute>]}

Return type
None

Note: Any missing parameter will default to the pre-defined value from the Object template.
If the object template isn't known by PyMISP, you *must* pass a type key/value, or it will fail.

Example:
[{'analysis_submitted_at': '2018-06-15T06:40:27'}, {'threat_score': {value=95, to_ids=False}}, {'permalink': 'https://panacea.threatgrid.com/mask/samples/2e445ef5389d8b'}, {'heuristic_raw_score': 7.8385159793597}, {'heuristic_score': 96}, {'original_filename': 'juice.exe'}, {'id': '2e445ef5389d8b'}]

class pymisp.tools.GeolocationObject(*parameters*, *strict=True*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.GitVulnFinderObject(*parameters*, *strict=True*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**MachOObject**(*parsed=None*, *filepath=None*, *pseudofile=None*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**MachOSectionObject**(*section*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**PEObject**(*parsed=None*, *filepath=None*, *pseudofile=None*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**PESectionObject**(*section*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**SBSignatureObject**(*software*, *report*, ***kwargs*)

Sandbox Analyzer

generate_attributes()

Parse the report for relevant attributes

Return type
None

class pymisp.tools.**SSHAuthorizedKeysObject**(*authorized_keys_path=None*, *authorized_keys_pseudofile=None*, ***kwargs*)

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

class pymisp.tools.**VTReportObject**(*apikey*, *indicator*, *vt_proxies=None*, ***kwargs*)

VirusTotal Report

Apikey
VirusTotal API key (private works, but only public features are supported right now)

Indicator
IOC to search VirusTotal for

generate_attributes()

Parse the VirusTotal report for relevant attributes

Return type
None

exception pymisp.tools.**ValidationError**(*message*)

class pymisp.tools.**VehicleObject**(*country*, *registration*, *username*, ***kwargs*)

Vehicle object generator out of regcheck.org.uk

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

pymisp.tools.**validate_attribute**(*attribute*)

Validates a MISP Attribute and returns a MISPAttribute if valid. Replicates MISP server-side validation behavior on Attributes.

Parameters
attribute (dict | *MISPAttribute*) – dict or MISPAttribute to validate

Return type
MISPAttribute

Returns
Validated MISPAttribute object

Raises

- ***PyMISPError*** – If the attribute cannot be loaded or a validation error occurs
- ***ValidationError*** – If the attribute is invalid

pymisp.tools.**validate_attributes**(*attributes*, *errors*)

Validates a list of MISP attributes and skips any that doesn't validate.

Parameters

- **attributes** (list) – List of MISPAttribute objects
- **errors** (dict) – Dictionary to populate with any validation error messages

Return type
Generator

Returns
Generator yielding only valid MISPAttribute objects

pymisp.tools.**validate_event**(*event*, *errors*)

Validates an event and skips Attributes or Object Attributes that don't validate.

Parameters

- **event** (dict | *MISPEvent*) – MISPEvent object or dict representing an event
- **errors** (dict) – Dictionary to populate with any validation error messages

Return type
MISPEvent

Returns
MISPEvent with only valid attributes

Raises
PyMISPError – If the event cannot be loaded

pymisp.tools.**validate_object**(*misp_object*, *errors*)

Validates an object and skips any Object Attribute that doesn't validate.

Parameters

- **misp_object** (dict | *MISPObject*) – MISPObject object or dict representing an object
- **errors** (dict) – Dictionary to populate with any validation error messages

Return type
MISPObject

Returns
MISPObject with only valid attributes

Raises
PyMISPError – If the object cannot be loaded

pymisp.tools.**validate_objects**(*misp_objects*, *errors*)

Validates a list of MISP objects and skips any Object Attribute that doesn't validate.

Parameters

- **misp_objects** (list) – List of MISPObject objects
- **errors** (dict) – Dictionary to populate with any validation error messages

Return type
Generator

Returns
Generator yielding only valid MISPObject objects

4.1 Excel / CSV Importer

If the header of the CSV file has valid object relations in the template you're using:

```
from pymisp.tools import CSVLoader
from pymisp import MISPEvent
from pathlib import Path

csv1 = CSVLoader(template_name='file', csv_path=Path('tests/csv_testfiles/valid_
↪fieldnames.csv'))
event = MISPEvent()
event.info = 'Test event from CSV loader'
for o in csv1.load():
    event.add_object(**o)
```

If the header of the CSV file does not have valid object relations in the template you're using:

```
event = MISPEvent()
event.info = 'Test event from CSV loader'
csv2 = CSVLoader(template_name='file', csv_path=Path('tests/csv_testfiles/invalid_
```

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```
↪fieldnames.csv'),
                fieldnames=['SHA1', 'fileName', 'size-in-bytes'], has_fieldnames=True)

for o in csv2.load():
    event.add_object(**o)
```

class pymisp.tools.**CSVLoader**(*template_name*, *csv_path*, *fieldnames=None*, *has_fieldnames=False*, *delimiter=','*, *quotechar='"'*)

4.2 File Object

class pymisp.tools.**FileObject**(*filepath=None*, *pseudofile=None*, *filename=None*, ***kwargs*)

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: `str` :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: `str` | `int` | `float` | `None` :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.
If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

clear() → None. Remove all items from D.

delete()

Mark the object as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.
If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

4.3 ELF Object

class pymisp.tools.**ELFObject**(*parsed=None*, *filepath=None*, *pseudofile=None*, ***kwargs*)

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: str :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: str | int | float | None :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.

If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

clear() → None. Remove all items from D.

delete()

Mark the object as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

class pymisp.tools.**ELFSectionObject**(*section*, ***kwargs*)

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: `str` :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: `str` | `int` | `float` | `None` :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.
If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

clear() → None. Remove all items from D.

delete()

Mark the object as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

4.4 PE Object

class pymisp.tools.**PEObject**(*parsed=None*, *filepath=None*, *pseudofile=None*, ***kwargs*)

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: str :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: str | int | float | None :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.

If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

clear() → None. Remove all items from D.

delete()

Mark the object as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

class pymisp.tools.**PESectionObject**(*section*, ***kwargs*)

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: str :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: str | int | float | None :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.

If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can

be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

clear() → None. Remove all items from D.

delete()

Mark the object as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]**F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

4.5 Mach-O Object

class pymisp.tools.**MachOObject**(*parsed=None*, *filepath=None*, *pseudofile=None*, ***kwargs*)

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: str :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: str | int | float | None :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.
If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

clear() → None. Remove all items from D.

delete()

Mark the object as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

class pymisp.tools.**MachOSectionObject**(*section*, ***kwargs*)

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: str :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: str | int | float | None :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.
If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

clear() → None. Remove all items from D.

delete()

Mark the object as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

generate_attributes()

Contains the logic where all the values of the object are gathered

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

4.6 VT Report Object

class pymisp.tools.**VTReportObject**(*apikey*, *indicator*, *vt_proxies=None*, ***kwargs*)

VirusTotal Report

Apikey
VirusTotal API key (private works, but only public features are supported right now)

Indicator
IOC to search VirusTotal for

add_attribute(*object_relation*, *simple_value=None*, ***value*)

Add an attribute. :type object_relation: `str` :param object_relation: The object relation of the attribute you're adding to the object :type simple_value: `str` | `int` | `float` | `None` :param simple_value: The value :type value: :param value: dictionary with all the keys supported by MISPAttribute

Return type
MISPAttribute | None

Note: as long as PyMISP knows about the object template, only the object_relation and the simple_value are required.
If PyMISP doesn't know the template, you also **must** pass a type. All the other options that can be passed along when creating an attribute (comment, IDS flag, ...) will be either taked out of the template, or out of the default setting for the type as defined on the MISP instance.

add_attributes(*object_relation*, **attributes*)

Add multiple attributes with the same object_relation. Helper for object_relation when multiple is True in the template. It is the same as calling multiple times add_attribute with the same object_relation.

Return type
list[*MISPAttribute* | None]

add_reference(*referenced_uuid*, *relationship_type*, *comment=None*, ***kwargs*)

Add a link (uuid) to another object

Return type
MISPObjectReference

clear() → None. Remove all items from D.

delete()

Mark the object as deleted (soft delete)

Return type
None

property edited: bool

Recursively check if an object has been edited and update the flag accordingly to the parent objects

from_dict(***kwargs*)

Loading all the parameters as class properties, if they aren't *None*. This method aims to be called when all the properties requiring a special treatment are processed. Note: This method is used when you initialize an object with existing data so by default, the class is flaged as not edited.

Return type
None

from_json(*json_string*)

Load a JSON string

Return type
None

generate_attributes()

Parse the VirusTotal report for relevant attributes

Return type
None

get(*k*[, *d*]) → D[k] if k in D, else d. d defaults to None.

get_attribute_by_id(*attribute_id*)

Get an object attribute by ID

Parameters
attribute_id (str | int) – The ID of the seeking object attribute

Return type
MISPObjectAttribute

get_attribute_by_uuid(*attribute_uuid*)

Get an object attribute by UUID

Parameters
attribute_uuid (str) – The UUID of the seeking object attribute

Return type
MISPObjectAttribute

get_attributes_by_relation(*object_relation*)

Returns the list of attributes with the given object relation in the object

Return type
list[*MISPAttribute*]

has_attributes_by_relation(*list_of_relations*)

True if all the relations in the list are defined in the object

Return type
bool

items() → a set-like object providing a view on D's items

jsonable()

This method is used by the JSON encoder

Return type
dict[str, Any]

keys() → a set-like object providing a view on D's keys

pop(*k*[, *d*]) → v, remove specified key and return the corresponding value.

If key is not found, d is returned if given, otherwise KeyError is raised.

popitem() → (k, v), remove and return some (key, value) pair

as a 2-tuple; but raise KeyError if D is empty.

set_not_jsonable(*args*)

Set __not_jsonable to a new list

Return type
None

setdefault(*k*[, *d*]) → D.get(k,d), also set D[k]=d if k not in D

to_dict(*json_format=False*, *strict=False*)

Dump the class to a dictionary. This method automatically removes the timestamp recursively in every object that has been edited is order to let MISP update the event accordingly.

Return type
dict[str, Any]

to_json(*sort_keys=False*, *indent=None*, *strict=False*)

Dump recursively any class of type MISPAbstract to a json string

Return type
str

update([*E*,]***F*) → None. Update D from mapping/iterable E and F.

If E present and has a .keys() method, does: for k in E.keys(): D[k] = E[k] If E present and lacks .keys() method, does: for (k, v) in E: D[k] = v In either case, this is followed by: for k, v in F.items(): D[k] = v

update_not_jsonable(**args*)

Add entries to the __not_jsonable list

Return type
None

values() → an object providing a view on D's values

4.7 STIX

4.8 OpenIOC

tools.**load_openioc**()

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