
polyswarm-api Documentation

PolySwarm

Jun 14, 2021

CONTENTS

1	API Reference	1
1.1	conftest	1
1.2	polyswarm_api	1
	Python Module Index	15
	Index	17

API REFERENCE

This page contains auto-generated API reference documentation¹.

1.1 conftest

1.2 polyswarm_api

1.2.1 Submodules

`polyswarm_api.api`

Module Contents

`polyswarm_api.api.logger`

class `polyswarm_api.api.PolyswarmAPI` (*key, uri=None, community=None, timeout=None*)

Bases: `object`

A synchronous interface to the public and private PolySwarm APIs.

engines

refresh_engine_cache (*self*)

Refresh the cached engine listing

wait_for (*self, scan, timeout=settings.DEFAULT_SCAN_TIMEOUT*)

Wait for a Scan to scan successfully

Parameters

- **scan** – Scan id to wait for
- **timeout** – Maximum time in seconds to wait before raising a `TimeoutException`

Returns The `ArtifactInstance` resource waited on

exists (*self, hash_, hash_type=None*)

Search for the latest scans matching the given hash and hash_type.

Parameters

- **hash** – A `Hashable` object (`Artifact`, `local.LocalArtifact`, `Hash`) or hex-encoded SHA256/SHA1/MD5

¹ Created with `sphinx-autoapi`

- **hash_type** – Hash type of the provided **hash_**. Will attempt to auto-detect if not explicitly provided.

Returns A boolean if the instance exists for search.

search (*self*, *hash_*, *hash_type=None*)

Search for the latest scans matching the given hash and hash_type.

Parameters

- **hash** – A Hashable object (Artifact, local.LocalArtifact, Hash) or hex-encoded SHA256/SHA1/MD5
- **hash_type** – Hash type of the provided **hash_**. Will attempt to auto-detect if not explicitly provided.

Returns Generator of ArtifactInstance resources

search_url (*self*, *url*)

Search for the latest scan matching the given url.

Parameters **url** – A url to be searched by exact match

Returns Generator of ArtifactInstance resources

search_scans (*self*, *hash_*)

Search for all scans ever made matching the given sha256.

Parameters **hash** – A Hashable object (Artifact, local.LocalArtifact, Hash) or hex-encoded SHA256

Returns Generator of ArtifactInstance resources

metadata_mapping (*self*)

search_by_metadata (*self*, *query*, *include=None*, *exclude=None*)

Search artifacts by metadata

Parameters

- **query** – A query string
- **include** – A list of fields to be included in the result (*. * wildcards are accepted)
- **exclude** – A list of fields to be excluded from the result (*. * wildcards are accepted)

Returns Generator of ArtifactInstance resources

submit (*self*, *artifact*, *artifact_type=resources.ArtifactType.FILE*, *artifact_name=None*, *scan_config=None*)

Submit artifacts to polyswarm and return UUIDs

Parameters

- **artifact** – A file-like, path to file, url or LocalArtifact instance
- **artifact_type** – The ArtifactType or strings containing “file” or “url”
- **artifact_name** – An appropriate filename for the Artifact
- **scan_config** – The scan configuration to be used, e.g.: “default”, “more-time”, “most-time”

Returns An ArtifactInstance resource

lookup (*self*, *scan*)

Lookup a scan by Scan id.

Parameters **scan** – The Scan UUID to lookup

Returns An ArtifactInstance resource

rescan (*self*, *hash_*, *hash_type=None*, *scan_config=None*)

Rescan a file based on an existing hash in the Polyswarm platform

Parameters

- **hash** – Hashable object (Artifact, local.LocalArtifact, or Hash) or hex-encoded SHA256/SHA1/MD5
- **hash_type** – Hash type of the provided **hash_**. Will attempt to auto-detect if not explicitly provided.
- **scan_config** – The scan configuration to be used, e.g.: “default”, “more-time”, “most-time”

Returns A ArtifactInstance resources

rescan_id (*self*, *scan*, *scan_config=None*)

Re-execute a new scan based on an existing scan.

Parameters

- **scan** – Id of the existing scan
- **scan_config** – The scan configuration to be used, e.g.: “default”, “more-time”, “most-time”

Returns A ArtifactInstance resource

_parse_rule (*self*, *rule*)

live_create (*self*, *rule*, *active=True*, *ruleset_name=None*)

Create a new live hunt_id, and replace the currently running YARA rules.

Parameters

- **rule** – YaraRuleset object or string containing YARA rules to install
- **active** – Set the live hunt to active upon creation if True.
- **ruleset_name** – Name of the ruleset.

Returns The created Hunt resource

live_get (*self*, *hunt=None*)

Delete a live hunt.

Parameters **hunt** – Hunt ID

Returns The Hunt resource

live_update (*self*, *active*, *hunt=None*)

Update a live hunt.

Parameters

- **hunt** – Hunt ID
- **active** – True to start the live hunt and False to stop it

Returns The updated Hunt resource

live_delete (*self*, *hunt=None*)

Delete a live hunt.

Parameters `hunt` – Hunt ID

Returns The deleted Hunt resource

live_list (*self*, *since=None*, *all_=None*)

List all the live hunts

Returns Generator of Hunt resources

live_results (*self*, *hunt=None*, *since=None*, *tag=None*, *rule_name=None*)

Get results from a live hunt

Parameters

- **hunt** – ID of the hunt (None if results for the latest active hunt are desired)
- **since** – Fetch results from the last “since” minutes
- **tag** – Filter hunt results containing the provided tags (comma separated tags, exact match).
- **rule_name** – Filter hunt results on the provided rule name (exact match).

Returns Generator of HuntResult resources

historical_create (*self*, *rule=None*, *ruleset_name=None*)

Run a new historical hunt.

Parameters

- **rule** – YaraRuleset object or string containing YARA rules to install
- **ruleset_name** – Name of the ruleset.

Returns The created Hunt resource

historical_get (*self*, *hunt=None*)

Delete a live hunt.

Parameters `hunt` – Hunt ID

Returns The Hunt resource

historical_delete (*self*, *hunt*)

Delete a historical hunt.

Parameters `hunt` – Hunt ID

Returns The deleted Hunt resource

historical_list (*self*, *since=None*)

List all historical hunts

Returns Generator of Hunt resources

historical_results (*self*, *hunt=None*, *tag=None*, *rule_name=None*)

Get results from a historical hunt

Parameters

- **hunt** – ID of the hunt (None if latest hunt results are desired)
- **tag** – Filter hunt results containing the provided tags (comma separated tags, exact match).
- **rule_name** – Filter hunt results on the provided rule name (exact match).

Returns Generator of HuntResult resources

ruleset_create (*self, name, rules, description=None*)

Create a Yara Ruleset from the provided rules with the given name in the polyswarm platform. :param name: Name of the ruleset :param rules: Yara rules as a string :param description: Description of the ruleset :return: A YaraRuleset resource

ruleset_get (*self, ruleset_id=None*)

Retrieve a YaraRuleset from the polyswarm platform by its Id. :param ruleset_id: Id of the ruleset :return: A YaraRuleset resource

ruleset_update (*self, ruleset_id, name=None, rules=None, description=None*)

Update an existing YaraRuleset in the polyswarm platform by its Id. :param ruleset_id: Id of the ruleset :param name: New name of the ruleset :param rules: New yara rules as a string :param description: New description of the ruleset :return: The updated YaraRuleset resource

ruleset_delete (*self, ruleset_id*)

Delete a YaraRuleset from the polyswarm platform by its Id. :param ruleset_id: Id of the ruleset :return: A YaraRuleset resource

ruleset_list (*self*)

List all YaraRulesets for the current account. :return: A generator of YaraRuleset resources

tag_link_get (*self, sha256*)

Fetch the Tags and Families associated with the given sha256.

Parameters **sha256** – The sha256 of the artifact.

Returns A TagLink resource

tag_link_update (*self, sha256, tags=None, families=None, emerging=None, remove=False*)

Update a TagLink with the given type or value by its id. :param sha256: The sha256 of the artifact. :param tags: A list of tags to be added or removed. :param families: A list of families to be added or removed. :param remove: A flag indicating if we should remove the provided tags/families. :return: A TagLink resource

tag_link_list (*self, tags=None, families=None, or_tags=None, or_families=None*)

Fetch all existing TagLinks for the provided tags. :param tags: A list of tags that must be associated with the TagLinks listed. :param families: A list of families that must be associated with the TagLinks listed. :param or_tags: A list of tags where the TagLinks must be associated with at least one. :param or_families: A list of families where the TagLinks must be associated with at least one. :return: A TagLink resource

tag_create (*self, name*)

Create a Tag. :param name: The tag we want to create. :return: A Tag resource

tag_get (*self, name*)

Fetch a Tag. :param name: The tag we want to fetch. :return: A Tag resource

tag_delete (*self, name*)

Delete a Tag. :param name: The tag we want to delete. :return: A Tag resource

tag_list (*self*)

Fetch all existing Tags. :return: A generator of Tag resources

family_create (*self, name*)

Create a Family. :param name: The family name. :return: A MalwareFamily resource

family_get (*self, name*)

Fetch a Family. :param name: The family name. :return: A MalwareFamily resource

family_delete (*self, name*)

Delete a Family. :param name: The family name. :return: A MalwareFamily resource

family_update (*self, family_name, emerging=True*)
Update the Family emerging status. :param family_name: The family name. :param emerging: A flag indicating if the family should be marked as emerging at this point in time. :return: A MalwareFamily resource

family_list (*self*)
Fetch all existing Families :return: A generator of MalwareFamily resources

assertions_create (*self, engine_id, date_start, date_end*)

assertions_get (*self, assertions_id*)

assertions_delete (*self, assertions_id*)

assertions_list (*self, engine_id*)

votes_create (*self, engine_id, date_start, date_end*)

votes_get (*self, votes_id*)

votes_delete (*self, votes_id*)

votes_list (*self, engine_id*)

download (*self, out_dir, hash_, hash_type=None*)
Grab the data of artifact identified by hash, and write the data to a file in the provided directory under a file named after the **hash_**. :param out_dir: Destination directory to download the file. :param **hash_**: The hash we should use to lookup the artifact to download. :param hash_type: Hash type of the provided **hash_**. Will attempt to auto-detect if not explicitly provided. :return: A LocalArtifact resource

download_archive (*self, out_dir, s3_path*)
Grab the data in the s3 path provided in the stream() method, and write the contents in the provided directory. :param out_dir: Destination directory to download the file. :param s3_path: Target S3 object to download. :return: A LocalArtifact resource

download_to_handle (*self, hash_, fh, hash_type=None*)
Grab the data of artifact identified by hash, and write the data to a file handle :param **hash_**: The hash we should use to lookup the artifact to download. :param fh: A file-like object which we are going to write the contents of the artifact to. :param hash_type: Hash type of the provided **hash_**. Will attempt to auto-detect if not explicitly provided. :return: A LocalHandle resource

stream (*self, since=settings.MAX_SINCE_TIME_STREAM*)
Access the stream of artifacts (ask info@polyswarm.io about access)

Parameters **since** – Fetch results from the last “since” minutes (up to 2 days)

Returns Generator of ArtifactArchive resources

rerun_metadata (*self, hashes, analyses=None, skip_es=None*)

tool_metadata_create (*self, sha256, tool, tool_metadata*)

tool_metadata_list (*self, sha256*)

__repr__ (*self*)

`polyswarm_api.core`

Module Contents

`polyswarm_api.core.JSONDecodeError`

`polyswarm_api.core.logger`

```

class polyswarm_api.core.PolyswarmSession (key, retries, user_agent=settings.DEFAULT_USER_AGENT)
    Bases: requests.Session

    requests_retry_session (self, retries=settings.DEFAULT_RETRIES, back-
                            off_factor=settings.DEFAULT_BACKOFF, sta-
                            tus_forcelist=settings.DEFAULT_RETRY_CODES)

    set_auth (self, key)

    set_user_agent (self, ua)

class polyswarm_api.core.RequestParamsEncoder
    Bases: json.JSONEncoder

    default (self, obj)

class polyswarm_api.core.PolyswarmRequest (api_instance, request_parameters, key=None,
                                           result_parser=None, **kwargs)
    Bases: object

    This class holds a requests-compatible dictionary and extra information we need to parse the response.

    result (self)

    execute (self)

    _bad_status_message (self)

    _extract_json_body (self, result)

    parse_result (self, result)

    __iter__ (self)

    consume_results (self)

    next_page (self)

class polyswarm_api.core.BaseResource (content, *args, **kwargs)
    Bases: object

    classmethod parse_result (cls, api, content, **kwargs)

class polyswarm_api.core.BaseJsonResource (content, *args, **kwargs)
    Bases: polyswarm_api.core.BaseResource

    RESOURCE_ENDPOINT

    RESOURCE_ID_KEY = id

    __int__ (self)

    _get (self, path, default=None, content=None)
        Helper for rendering attributes of child objects in the json that might be None. Returns the default value if
        some of the items in the path is not present.

    classmethod parse_result_list (cls, api_instance, json_data, **kwargs)

    classmethod _endpoint (cls, api, **kwargs)

    classmethod _list_endpoint (cls, api, **kwargs)

    classmethod _create_endpoint (cls, api, **kwargs)

    classmethod _get_endpoint (cls, api, **kwargs)

    classmethod _head_endpoint (cls, api, **kwargs)

    classmethod _update_endpoint (cls, api, **kwargs)

```

```
classmethod _delete_endpoint (cls, api, **kwargs)
classmethod _params (cls, method, *param_keys, **kwargs)
classmethod _list_params (cls, **kwargs)
classmethod _create_params (cls, **kwargs)
classmethod _get_params (cls, **kwargs)
classmethod _head_params (cls, **kwargs)
classmethod _update_params (cls, **kwargs)
classmethod _delete_params (cls, **kwargs)
classmethod _list_headers (cls, api)
classmethod _create_headers (cls, api)
classmethod _get_headers (cls, api)
classmethod _head_headers (cls, api)
classmethod _update_headers (cls, api)
classmethod _delete_headers (cls, api)
classmethod _build_request (cls, api, method, url, headers, params, json_params)
classmethod create (cls, api, **kwargs)
classmethod get (cls, api, **kwargs)
classmethod head (cls, api, **kwargs)
classmethod update (cls, api, **kwargs)
classmethod delete (cls, api, **kwargs)
classmethod list (cls, api, **kwargs)
```

```
polyswarm_api.core.is_hex (value)
```

```
polyswarm_api.core.is_valid_shal (value)
```

```
polyswarm_api.core.is_valid_md5 (value)
```

```
polyswarm_api.core.is_valid_sha256 (value)
```

```
class polyswarm_api.core.Hashable (*args, **kwargs)
```

```
    Bases: object
```

```
    SUPPORTED_HASH_TYPES
```

```
    hash
```

```
    hash_type
```

```
    raw
```

```
    validate (self)
```

```
    resolve_hash_type (self)
```

```
    __eq__ (self, other)
```

```
polyswarm_api.core.parse_isoformat (date_string)
```

```
Parses the current date format version
```

polyswarm_api.exceptions**Module Contents**

exception polyswarm_api.exceptions.**PolyswarmException**
 Bases: Exception

exception polyswarm_api.exceptions.**PolyswarmAPIException**
 Bases: *polyswarm_api.exceptions.PolyswarmException*

exception polyswarm_api.exceptions.**TimeoutException**
 Bases: *polyswarm_api.exceptions.PolyswarmAPIException*

exception polyswarm_api.exceptions.**RequestException** (*request, *args*)
 Bases: *polyswarm_api.exceptions.PolyswarmException*

exception polyswarm_api.exceptions.**UsageLimitsExceededException**
 Bases: *polyswarm_api.exceptions.RequestException*

exception polyswarm_api.exceptions.**NotFoundException**
 Bases: *polyswarm_api.exceptions.RequestException*

exception polyswarm_api.exceptions.**NoResultsException**
 Bases: *polyswarm_api.exceptions.RequestException*

exception polyswarm_api.exceptions.**TypeException**
 Bases: *polyswarm_api.exceptions.PolyswarmException*

exception polyswarm_api.exceptions.**MissingAPIInstanceException**
 Bases: *polyswarm_api.exceptions.TypeException*

exception polyswarm_api.exceptions.**InvalidJSONResponseException**
 Bases: *polyswarm_api.exceptions.TypeException*

exception polyswarm_api.exceptions.**DecodeErrorException**
 Bases: *polyswarm_api.exceptions.TypeException*

exception polyswarm_api.exceptions.**InvalidValueException**
 Bases: *polyswarm_api.exceptions.TypeException*

exception polyswarm_api.exceptions.**ArtifactDeletedException**
 Bases: *polyswarm_api.exceptions.TypeException*

exception polyswarm_api.exceptions.**InvalidYaraRulesException**
 Bases: *polyswarm_api.exceptions.TypeException*

exception polyswarm_api.exceptions.**NotImportedException**
 Bases: *polyswarm_api.exceptions.TypeException*

polyswarm_api.resources**Module Contents**

polyswarm_api.resources.**yara**

polyswarm_api.resources.**logger**

class polyswarm_api.resources.**Engine** (*content, api=None*)
 Bases: *polyswarm_api.core.BaseJsonResource*

RESOURCE_ENDPOINT = /microengines

```

    classmethod _list_headers (cls, api)
    __hash__ (self)
    __eq__ (self, other)
    is_arbiter (self)

class polyswarm_api.resources.ToolMetadata
    Bases: polyswarm_api.core.BaseJsonResource
    RESOURCE_ENDPOINT = /artifact/metadata

class polyswarm_api.resources.MetadataMapping
    Bases: polyswarm_api.core.BaseJsonResource
    RESOURCE_ENDPOINT = /search/metadata/mappings

class polyswarm_api.resources.Metadata (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource
    RESOURCE_ENDPOINT = /search/metadata/query
    KNOWN_KEYS
    __contains__ (self, item)
    __getattr__ (self, name)
    classmethod _get_params (cls, **kwargs)

class polyswarm_api.resources.ArtifactInstance (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource, polyswarm_api.core.Hashable
    RESOURCE_ENDPOINT = /instance
    malicious_assertions
    benign_assertions
    valid_assertions
    filenames
    upload_file (self, artifact, attempts=3, **kwargs)
    classmethod exists_hash (cls, api, hash_value, hash_type)
    classmethod search_hash (cls, api, hash_value, hash_type)
    classmethod search_url (cls, api, url)
    classmethod list_scans (cls, api, hash_value)
    classmethod submit (cls, api, artifact, artifact_name, artifact_type, scan_config=None)
    classmethod rescan (cls, api, hash_value, hash_type, scan_config=None)
    classmethod rescan_id (cls, api, submission_id, scan_config=None)
    classmethod lookup_uuid (cls, api, submission_id)
    classmethod metadata_rerun (cls, api, hashes, analyses=None, skip_es=None)
    __str__ (self)

class polyswarm_api.resources.ArtifactArchive (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource
    RESOURCE_ENDPOINT = /consumer/download/stream

```

```

class polyswarm_api.resources.Hunt (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource

class polyswarm_api.resources.LiveHunt
    Bases: polyswarm_api.resources.Hunt

    RESOURCE_ENDPOINT = /hunt/live

class polyswarm_api.resources.HistoricalHunt
    Bases: polyswarm_api.resources.Hunt

    RESOURCE_ENDPOINT = /hunt/historical

class polyswarm_api.resources.HuntResult (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource

class polyswarm_api.resources.LiveHuntResult
    Bases: polyswarm_api.resources.HuntResult

    RESOURCE_ENDPOINT = /hunt/live/results

class polyswarm_api.resources.HistoricalHuntResult
    Bases: polyswarm_api.resources.HuntResult

    RESOURCE_ENDPOINT = /hunt/historical/results

class polyswarm_api.resources.AssertionsJob (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource

    RESOURCE_ENDPOINT = /consumer/assertions-job

class polyswarm_api.resources.VotesJob (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource

    RESOURCE_ENDPOINT = /consumer/votes-job

polyswarm_api.resources._read_chunks (file_handle)

polyswarm_api.resources.all_hashes (file_handle, algorithms=(_sha256, _sha1, _md5))

class polyswarm_api.resources.LocalArtifact (response, api=None, handle=None,
                                             folder=None, artifact_name=None, arti-
                                             fact_type=None, analyze=False, **kwargs)
    Bases: polyswarm_api.core.BaseResource, polyswarm_api.core.Hashable

    Artifact for which we have local content

    hash

    classmethod download (cls, api, hash_value, hash_type, handle=None, folder=None, arti-
                        fact_name=None)

    classmethod download_archive (cls, api, u, handle=None, folder=None, artifact_name=None)
        This method is special, in that it is simply for downloading from S3

    __getattr__ (self, name)

    classmethod from_handle (cls, api, handle, artifact_type=None, analyze=False, arti-
                           fact_name=None, **kwargs)

    classmethod from_path (cls, api, path, artifact_type=None, analyze=False, artifact_name=None,
                          **kwargs)

    classmethod from_content (cls, api, content, artifact_name=None, artifact_type=None, ana-
                             lyze=False)

    analyze_artifact (self, force=False)

```

```
    _calc_hashes (self, fh)
    _run_analyzers (self, fh)
    __str__ (self)
class polyswarm_api.resources.YaraRuleset (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource
    RESOURCE_ENDPOINT = /hunt/rule
    validate (self)
class polyswarm_api.resources.TagLink (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource
    RESOURCE_ENDPOINT = /tags/link
    RESOURCE_ID_KEY = hash
    classmethod _list_params (cls, **kwargs)
class polyswarm_api.resources.MalwareFamily (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource
    RESOURCE_ENDPOINT = /tags/family
    RESOURCE_ID_KEY = name
class polyswarm_api.resources.Tag (content, api=None)
    Bases: polyswarm_api.core.BaseJsonResource
    RESOURCE_ENDPOINT = /tags/tag
    RESOURCE_ID_KEY = name
class polyswarm_api.resources.Assertion (content, api=None, scanfile=None)
    Bases: polyswarm_api.core.BaseJsonResource
    __str__ (self)
class polyswarm_api.resources.Vote (content, api=None, scanfile=None)
    Bases: polyswarm_api.core.BaseJsonResource
    __str__ (self)
class polyswarm_api.resources.ArtifactType
    Bases: enum.Enum
    FILE = 0
    URL = 1
    static parse (value)
    static to_string (artifact_type)
    decode_content (self, content)
class polyswarm_api.resources.Hash (hash_, hash_type=None, validate_hash=True)
    Bases: polyswarm_api.core.Hashable
    classmethod from_hashable (cls, hash_, hash_type=None)
        Coerce to Hashable object
```

Parameters

- **hash** – Hashable object

- **hash_type** – Hash type
- **polyswarm** – PolyswarmAPI instance

Returns Hash

`__hash__(self)`

`__str__(self)`

`__repr__(self)`

`polyswarm_api.settings`

Module Contents

`polyswarm_api.settings.DEFAULT_GLOBAL_API = https://api.polyswarm.network/v2`

`polyswarm_api.settings.DEFAULT_PERMALINK_BASE`

`polyswarm_api.settings.DEFAULT_COMMUNITY = default`

`polyswarm_api.settings.DEFAULT_SCAN_TIMEOUT`

`polyswarm_api.settings.RESULT_CHUNK_SIZE = 100`

`polyswarm_api.settings.POLL_FREQUENCY = 1`

`polyswarm_api.settings.DEFAULT_HTTP_TIMEOUT = 30`

`polyswarm_api.settings.DEFAULT_RETRIES = 0`

`polyswarm_api.settings.DEFAULT_BACKOFF = 1`

`polyswarm_api.settings.DEFAULT_RETRY_CODES = [502, 504]`

`polyswarm_api.settings.DEFAULT_USER_AGENT`

`polyswarm_api.settings.DEFAULT_WORKER_COUNT = 8`

`polyswarm_api.settings.MAX_HUNT_RESULTS = 20000`

`polyswarm_api.settings.MAX_ARTIFACT_BATCH_SIZE = 256`

`polyswarm_api.settings.FILE_CHUNK_SIZE = 8192`

`polyswarm_api.settings.MAX_OPEN_FDS = 256`

`polyswarm_api.settings.DOWNLOAD_CHUNK_SIZE`

`polyswarm_api.settings.MAX_SINCE_TIME_STREAM`

1.2.2 Package Contents

`polyswarm_api.__version__ = 2.9.2`

`polyswarm_api.__release_url__ = https://api.github.com/repos/polyswarm/polyswarm-api/releases`

`polyswarm-api` is a convenient library and command line interface (CLI) for interacting with the PolySwarm marketplace.

Here you'll find auto-generated documentation based on the `polyswarm-api` source code. Developers seeking to incorporate `polyswarm-api` as a library may find this useful. Get started by navigating to “API Reference” over to the left.

For `polyswarm-api` installation and CLI usage instructions, please refer to [README.md](#).

PYTHON MODULE INDEX

c

conftest, 1

p

polyswarm_api, 1

polyswarm_api.api, 1

polyswarm_api.core, 6

polyswarm_api.exceptions, 9

polyswarm_api.resources, 9

polyswarm_api.settings, 13

Symbols

__contains__() (*polyswarm_api.resources.Metadata method*), 10
 __eq__() (*polyswarm_api.core.Hashable method*), 8
 __eq__() (*polyswarm_api.resources.Engine method*), 10
 __getattr__() (*polyswarm_api.resources.LocalArtifact method*), 11
 __getattr__() (*polyswarm_api.resources.Metadata method*), 10
 __hash__() (*polyswarm_api.resources.Engine method*), 10
 __hash__() (*polyswarm_api.resources.Hash method*), 13
 __int__() (*polyswarm_api.core.BaseJsonResource method*), 7
 __iter__() (*polyswarm_api.core.PolyswarmRequest method*), 7
 __release_url__ (in module *polyswarm_api*), 13
 __repr__() (*polyswarm_api.api.PolyswarmAPI method*), 6
 __repr__() (*polyswarm_api.resources.Hash method*), 13
 __str__() (*polyswarm_api.resources.ArtifactInstance method*), 10
 __str__() (*polyswarm_api.resources.Assertion method*), 12
 __str__() (*polyswarm_api.resources.Hash method*), 13
 __str__() (*polyswarm_api.resources.LocalArtifact method*), 12
 __str__() (*polyswarm_api.resources.Vote method*), 12
 __version__ (in module *polyswarm_api*), 13
 _bad_status_message() (*polyswarm_api.core.PolyswarmRequest method*), 7
 _build_request() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _calc_hashes() (*polyswarm_api.resources.LocalArtifact method*), 11
 _create_endpoint() (*polyswarm_api.core.BaseJsonResource class method*), 7
 _create_headers() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _create_params() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _delete_endpoint() (*polyswarm_api.core.BaseJsonResource class method*), 7
 _delete_headers() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _delete_params() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _endpoint() (*polyswarm_api.core.BaseJsonResource class method*), 7
 _extract_json_body() (*polyswarm_api.core.PolyswarmRequest method*), 7
 _get() (*polyswarm_api.core.BaseJsonResource method*), 7
 _get_endpoint() (*polyswarm_api.core.BaseJsonResource class method*), 7
 _get_headers() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _get_params() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _get_params() (*polyswarm_api.resources.Metadata class method*), 10
 _head_endpoint() (*polyswarm_api.core.BaseJsonResource class method*), 7
 _head_headers() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _head_params() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _list_endpoint() (*polyswarm_api.core.BaseJsonResource class method*), 7
 _list_headers() (*polyswarm_api.core.BaseJsonResource class method*), 8
 _list_headers() (*polyswarm_api.resources.Engine class method*), 9

`_list_params()` (*polyswarm_api.core.BaseJsonResource* class method), 8
`_list_params()` (*polyswarm_api.resources.TagLink* class method), 12
`_params()` (*polyswarm_api.core.BaseJsonResource* class method), 8
`_parse_rule()` (*polyswarm_api.api.PolyswarmAPI* method), 3
`_read_chunks()` (in module *polyswarm_api.resources*), 11
`_run_analyzers()` (*polyswarm_api.resources.LocalArtifact* method), 12
`_update_endpoint()` (*polyswarm_api.core.BaseJsonResource* class method), 7
`_update_headers()` (*polyswarm_api.core.BaseJsonResource* class method), 8
`_update_params()` (*polyswarm_api.core.BaseJsonResource* class method), 8

A

`all_hashes()` (in module *polyswarm_api.resources*), 11
`analyze_artifact()` (*polyswarm_api.resources.LocalArtifact* method), 11
ArtifactArchive (class in *polyswarm_api.resources*), 10
ArtifactDeletedException, 9
ArtifactInstance (class in *polyswarm_api.resources*), 10
ArtifactType (class in *polyswarm_api.resources*), 12
Assertion (class in *polyswarm_api.resources*), 12
`assertions_create()` (*polyswarm_api.api.PolyswarmAPI* method), 6
`assertions_delete()` (*polyswarm_api.api.PolyswarmAPI* method), 6
`assertions_get()` (*polyswarm_api.api.PolyswarmAPI* method), 6
`assertions_list()` (*polyswarm_api.api.PolyswarmAPI* method), 6
AssertionsJob (class in *polyswarm_api.resources*), 11

B

BaseJsonResource (class in *polyswarm_api.core*), 7
BaseResource (class in *polyswarm_api.core*), 7
`benign_assertions` (*polyswarm_api.resources.ArtifactInstance* attribute), 10

C

`confstest` (module), 1

`consume_results()` (*polyswarm_api.core.PolyswarmRequest* method), 7
`create()` (*polyswarm_api.core.BaseJsonResource* class method), 8

D

`decode_content()` (*polyswarm_api.resources.ArtifactType* method), 12
DecodeErrorException, 9
`default()` (*polyswarm_api.core.RequestParamsEncoder* method), 7
`DEFAULT_BACKOFF` (in module *polyswarm_api.settings*), 13
`DEFAULT_COMMUNITY` (in module *polyswarm_api.settings*), 13
`DEFAULT_GLOBAL_API` (in module *polyswarm_api.settings*), 13
`DEFAULT_HTTP_TIMEOUT` (in module *polyswarm_api.settings*), 13
`DEFAULT_PERMALINK_BASE` (in module *polyswarm_api.settings*), 13
`DEFAULT_RETRIES` (in module *polyswarm_api.settings*), 13
`DEFAULT_RETRY_CODES` (in module *polyswarm_api.settings*), 13
`DEFAULT_SCAN_TIMEOUT` (in module *polyswarm_api.settings*), 13
`DEFAULT_USER_AGENT` (in module *polyswarm_api.settings*), 13
`DEFAULT_WORKER_COUNT` (in module *polyswarm_api.settings*), 13
`delete()` (*polyswarm_api.core.BaseJsonResource* class method), 8
`download()` (*polyswarm_api.api.PolyswarmAPI* method), 6
`download()` (*polyswarm_api.resources.LocalArtifact* class method), 11
`download_archive()` (*polyswarm_api.api.PolyswarmAPI* method), 6
`download_archive()` (*polyswarm_api.resources.LocalArtifact* class method), 11
`DOWNLOAD_CHUNK_SIZE` (in module *polyswarm_api.settings*), 13
`download_to_handle()` (*polyswarm_api.api.PolyswarmAPI* method), 6

E

Engine (class in *polyswarm_api.resources*), 9
`engines` (*polyswarm_api.api.PolyswarmAPI* attribute), 1
`execute()` (*polyswarm_api.core.PolyswarmRequest* method), 7

exists() (*polyswarm_api.api.PolyswarmAPI method*), 1
exists_hash() (*polyswarm_api.resources.ArtifactInstance class method*), 10

F

family_create() (*polyswarm_api.api.PolyswarmAPI method*), 5
family_delete() (*polyswarm_api.api.PolyswarmAPI method*), 5
family_get() (*polyswarm_api.api.PolyswarmAPI method*), 5
family_list() (*polyswarm_api.api.PolyswarmAPI method*), 6
family_update() (*polyswarm_api.api.PolyswarmAPI method*), 5
FILE (*polyswarm_api.resources.ArtifactType attribute*), 12
FILE_CHUNK_SIZE (*in module polyswarm_api.settings*), 13
filenames (*polyswarm_api.resources.ArtifactInstance attribute*), 10
from_content() (*polyswarm_api.resources.LocalArtifact class method*), 11
from_handle() (*polyswarm_api.resources.LocalArtifact class method*), 11
from_hashable() (*polyswarm_api.resources.Hash class method*), 12
from_path() (*polyswarm_api.resources.LocalArtifact class method*), 11

G

get() (*polyswarm_api.core.BaseJsonResource class method*), 8

H

Hash (*class in polyswarm_api.resources*), 12
hash (*polyswarm_api.core.Hashable attribute*), 8
hash (*polyswarm_api.resources.LocalArtifact attribute*), 11
hash_type (*polyswarm_api.core.Hashable attribute*), 8
Hashable (*class in polyswarm_api.core*), 8
head() (*polyswarm_api.core.BaseJsonResource class method*), 8
historical_create() (*polyswarm_api.api.PolyswarmAPI method*), 4
historical_delete() (*polyswarm_api.api.PolyswarmAPI method*), 4
historical_get() (*polyswarm_api.api.PolyswarmAPI method*), 4
historical_list() (*polyswarm_api.api.PolyswarmAPI method*), 4
historical_results() (*polyswarm_api.api.PolyswarmAPI method*), 4
HistoricalHunt (*class in polyswarm_api.resources*), 11
HistoricalHuntResult (*class in polyswarm_api.resources*), 11
Hunt (*class in polyswarm_api.resources*), 10
HuntResult (*class in polyswarm_api.resources*), 11

I

InvalidJSONResponseException, 9
InvalidValueException, 9
InvalidYaraRulesException, 9
is_arbiter() (*polyswarm_api.resources.Engine method*), 10
is_hex() (*in module polyswarm_api.core*), 8
is_valid_md5() (*in module polyswarm_api.core*), 8
is_valid_shal() (*in module polyswarm_api.core*), 8
is_valid_sha256() (*in module polyswarm_api.core*), 8

J

JSONDecodeError (*in module polyswarm_api.core*), 6

K

KNOWN_KEYS (*polyswarm_api.resources.Metadata attribute*), 10

L

list() (*polyswarm_api.core.BaseJsonResource class method*), 8
list_scans() (*polyswarm_api.resources.ArtifactInstance class method*), 10
live_create() (*polyswarm_api.api.PolyswarmAPI method*), 3
live_delete() (*polyswarm_api.api.PolyswarmAPI method*), 3
live_get() (*polyswarm_api.api.PolyswarmAPI method*), 3
live_list() (*polyswarm_api.api.PolyswarmAPI method*), 4
live_results() (*polyswarm_api.api.PolyswarmAPI method*), 4
live_update() (*polyswarm_api.api.PolyswarmAPI method*), 3
LiveHunt (*class in polyswarm_api.resources*), 11
LiveHuntResult (*class in polyswarm_api.resources*), 11
LocalArtifact (*class in polyswarm_api.resources*), 11
logger (*in module polyswarm_api.api*), 1
logger (*in module polyswarm_api.core*), 6

logger (in module *polyswarm_api.resources*), 9
 lookup() (*polyswarm_api.api.PolyswarmAPI* method), 2
 lookup_uuid() (*polyswarm_api.resources.ArtifactInstance* class method), 10

M

malicious_assertions (*polyswarm_api.resources.ArtifactInstance* attribute), 10
 MalwareFamily (class in *polyswarm_api.resources*), 12
 MAX_ARTIFACT_BATCH_SIZE (in module *polyswarm_api.settings*), 13
 MAX_HUNT_RESULTS (in module *polyswarm_api.settings*), 13
 MAX_OPEN_FDS (in module *polyswarm_api.settings*), 13
 MAX_SINCE_TIME_STREAM (in module *polyswarm_api.settings*), 13
 Metadata (class in *polyswarm_api.resources*), 10
 metadata_mapping() (*polyswarm_api.api.PolyswarmAPI* method), 2
 metadata_rerun() (*polyswarm_api.resources.ArtifactInstance* class method), 10
 MetadataMapping (class in *polyswarm_api.resources*), 10
 MissingAPIInstanceException, 9

N

next_page() (*polyswarm_api.core.PolyswarmRequest* method), 7
 NoResultsException, 9
 NotFoundException, 9
 NotImportedException, 9

P

parse() (*polyswarm_api.resources.ArtifactType* static method), 12
 parse_isoformat() (in module *polyswarm_api.core*), 8
 parse_result() (*polyswarm_api.core.BaseResource* class method), 7
 parse_result() (*polyswarm_api.core.PolyswarmRequest* method), 7
 parse_result_list() (*polyswarm_api.core.BaseJsonResource* class method), 7
 POLL_FREQUENCY (in module *polyswarm_api.settings*), 13
 polyswarm_api (module), 1
 polyswarm_api.api (module), 1
 polyswarm_api.core (module), 6
 polyswarm_api.exceptions (module), 9

polyswarm_api.resources (module), 9
polyswarm_api.settings (module), 13
 PolyswarmAPI (class in *polyswarm_api.api*), 1
 PolyswarmAPIException, 9
 PolyswarmException, 9
 PolyswarmRequest (class in *polyswarm_api.core*), 7
 PolyswarmSession (class in *polyswarm_api.core*), 6

R

raw (*polyswarm_api.core.Hashable* attribute), 8
 refresh_engine_cache() (*polyswarm_api.api.PolyswarmAPI* method), 1
 RequestException, 9
 RequestParamsEncoder (class in *polyswarm_api.core*), 7
 requests_retry_session() (*polyswarm_api.core.PolyswarmSession* method), 7
 rerun_metadata() (*polyswarm_api.api.PolyswarmAPI* method), 6
 rescan() (*polyswarm_api.api.PolyswarmAPI* method), 3
 rescan() (*polyswarm_api.resources.ArtifactInstance* class method), 10
 rescan_id() (*polyswarm_api.api.PolyswarmAPI* method), 3
 rescan_id() (*polyswarm_api.resources.ArtifactInstance* class method), 10
 resolve_hash_type() (*polyswarm_api.core.Hashable* method), 8
 RESOURCE_ENDPOINT (*polyswarm_api.core.BaseJsonResource* attribute), 7
 RESOURCE_ENDPOINT (*polyswarm_api.resources.ArtifactArchive* attribute), 10
 RESOURCE_ENDPOINT (*polyswarm_api.resources.ArtifactInstance* attribute), 10
 RESOURCE_ENDPOINT (*polyswarm_api.resources.AssertionsJob* attribute), 11
 RESOURCE_ENDPOINT (*polyswarm_api.resources.Engine* attribute), 9
 RESOURCE_ENDPOINT (*polyswarm_api.resources.HistoricalHunt* attribute), 11
 RESOURCE_ENDPOINT (*polyswarm_api.resources.HistoricalHuntResult* attribute), 11
 RESOURCE_ENDPOINT (*polyswarm_api.resources.LiveHunt* attribute), 11

RESOURCE_ENDPOINT (polyswarm_api.resources.LiveHuntResult attribute), 11

RESOURCE_ENDPOINT (polyswarm_api.resources.MalwareFamily attribute), 12

RESOURCE_ENDPOINT (polyswarm_api.resources.Metadata attribute), 10

RESOURCE_ENDPOINT (polyswarm_api.resources.MetadataMapping attribute), 10

RESOURCE_ENDPOINT (polyswarm_api.resources.Tag attribute), 12

RESOURCE_ENDPOINT (polyswarm_api.resources.TagLink attribute), 12

RESOURCE_ENDPOINT (polyswarm_api.resources.ToolMetadata attribute), 10

RESOURCE_ENDPOINT (polyswarm_api.resources.VotesJob attribute), 11

RESOURCE_ENDPOINT (polyswarm_api.resources.YaraRuleset attribute), 12

RESOURCE_ID_KEY (polyswarm_api.core.BaseJsonResource attribute), 7

RESOURCE_ID_KEY (polyswarm_api.resources.MalwareFamily attribute), 12

RESOURCE_ID_KEY (polyswarm_api.resources.Tag attribute), 12

RESOURCE_ID_KEY (polyswarm_api.resources.TagLink attribute), 12

result () (polyswarm_api.core.PolyswarmRequest method), 7

RESULT_CHUNK_SIZE (in module polyswarm_api.settings), 13

ruleset_create () (polyswarm_api.api.PolyswarmAPI method), 4

ruleset_delete () (polyswarm_api.api.PolyswarmAPI method), 5

ruleset_get () (polyswarm_api.api.PolyswarmAPI method), 5

ruleset_list () (polyswarm_api.api.PolyswarmAPI method), 5

ruleset_update () (polyswarm_api.api.PolyswarmAPI method), 5

search () (polyswarm_api.api.PolyswarmAPI method), 2

search_by_metadata () (polyswarm_api.api.PolyswarmAPI method), 2

search_hash () (polyswarm_api.resources.ArtifactInstance class method), 10

search_scans () (polyswarm_api.api.PolyswarmAPI method), 2

search_url () (polyswarm_api.api.PolyswarmAPI method), 2

search_url () (polyswarm_api.resources.ArtifactInstance class method), 10

set_auth () (polyswarm_api.core.PolyswarmSession method), 7

set_user_agent () (polyswarm_api.core.PolyswarmSession method), 7

stream () (polyswarm_api.api.PolyswarmAPI method), 6

submit () (polyswarm_api.api.PolyswarmAPI method), 2

submit () (polyswarm_api.resources.ArtifactInstance class method), 10

SUPPORTED_HASH_TYPES (polyswarm_api.core.Hashable attribute), 8

T

Tag (class in polyswarm_api.resources), 12

tag_create () (polyswarm_api.api.PolyswarmAPI method), 5

tag_delete () (polyswarm_api.api.PolyswarmAPI method), 5

tag_get () (polyswarm_api.api.PolyswarmAPI method), 5

tag_link_get () (polyswarm_api.api.PolyswarmAPI method), 5

tag_link_list () (polyswarm_api.api.PolyswarmAPI method), 5

tag_link_update () (polyswarm_api.api.PolyswarmAPI method), 5

tag_list () (polyswarm_api.api.PolyswarmAPI method), 5

TagLink (class in polyswarm_api.resources), 12

TimeoutException, 9

to_string () (polyswarm_api.resources.ArtifactType static method), 12

tool_metadata_create () (polyswarm_api.api.PolyswarmAPI method), 6

tool_metadata_list () (polyswarm_api.api.PolyswarmAPI method), 6

ToolMetadata (class in polyswarm_api.resources), 10

TypeException, 9

U

update () (polyswarm_api.core.BaseJsonResource class method), 8

upload_file () (polyswarm_api.resources.ArtifactInstance method), 10

URL (*polyswarm_api.resources.ArtifactType* attribute),
12

UsageLimitsExceededException, 9

V

valid_assertions (*polyswarm_api.resources.ArtifactInstance*
attribute), 10

validate() (*polyswarm_api.core.Hashable* method),
8

validate() (*polyswarm_api.resources.YaraRuleset*
method), 12

Vote (*class in polyswarm_api.resources*), 12

votes_create() (*polyswarm_api.api.PolyswarmAPI*
method), 6

votes_delete() (*polyswarm_api.api.PolyswarmAPI*
method), 6

votes_get() (*polyswarm_api.api.PolyswarmAPI*
method), 6

votes_list() (*polyswarm_api.api.PolyswarmAPI*
method), 6

VotesJob (*class in polyswarm_api.resources*), 11

W

wait_for() (*polyswarm_api.api.PolyswarmAPI*
method), 1

Y

yara (*in module polyswarm_api.resources*), 9

YaraRuleset (*class in polyswarm_api.resources*), 12