
Offensive Web Testing Framework Documentation

Release MacinOWTF

OWTF Team

Apr 01, 2018

Contents

| | |
|--|-----------|
| 1 Installation | 3 |
| 1.1 Prerequisites | 3 |
| 1.2 Installation | 3 |
| 1.3 Advanced Installation | 4 |
| 2 owtf | 5 |
| 2.1 owtf package | 5 |
| 3 Configuration | 49 |
| 3.1 Database Configuration | 49 |
| 3.2 Framework Configuration (Optional) | 50 |
| 4 Usage | 51 |
| 4.1 Starting OWTF | 51 |
| 4.2 Using Sessions | 51 |
| 4.3 Managing Targets | 52 |
| 4.4 Understanding Plugins | 52 |
| 4.5 Analyzing results | 56 |
| 4.6 Managing Workers | 63 |
| 4.7 Controlling Worklist | 65 |
| 5 Troubleshooting | 67 |
| 6 Want Help or Request a feature? | 69 |
| Python Module Index | 71 |



Contents:

CHAPTER 1

Installation

1.1 Prerequisites

There are few packages which are mandatory before you proceed

- Git client: `sudo apt-get install git`
- Python 2.7, installed by default in most systems

1.2 Installation

There are two ways in which you can proceed:

1.2.1 Manual Installation

Manual installation of OWTF is nothing but cloning the repo and running the owtf setup.

```
git clone https://github.com/owtf/owtf.git
cd owtf/
python setup.py install
```

1.2.2 Docker

Docker automates the task of setting up owtf doing all the bootstrapping it needs. Just make sure that you have docker and docker-compose installed and run:

```
docker-compose up
```

- If you wish to override the environment variables for docker setup, use the file named `owtf.env`

1.3 Advanced Installation

If your distro is not officially supported in the install script, the following packages might not have been installed. So please make sure you atleast have the mandatory packages installed. Almost all the packages can be obtained using package manager of any major distro.

1.3.1 Mandatory

- Postgresql

1.3.2 Optional Packages

- [Tor](#) (For Botnet mode)
- [Proxychains](#) (For Botnet mode)

1.3.3 Optional Tools

- [Curl](#)
- [Arachni](#)
- [w3af](#)
- [Skipfish](#)
- [Dirbuster](#)

CHAPTER 2

owtf

2.1 owtf package

2.1.1 Subpackages

owtf.api package

Subpackages

owtf.api.handlers package

Submodules

owtf.api.handlers.base module

owtf.api.handlers.base

```
class owtf.api.handlers.base.APIRequestHandler(application, request, **kwargs)
Bases: tornado.web.RequestHandler
```

error (*message*, *data=None*, *code=None*)

An error occurred in processing the request, i.e. an exception was thrown.

Parameters

- **data** (*A JSON-serializable object*) – A generic container for any other information about the error, i.e. the conditions that caused the error, stack traces, etc.
- **message** (*A JSON-serializable object*) – A meaningful, end-user-readable (or at the least log-worthy) message, explaining what went wrong
- **code** (*int*) – A numeric code corresponding to the error, if applicable

`fail(data)`

There was a problem with the data submitted, or some pre-condition of the API call wasn't satisfied.

Parameters `data` (*A JSON-serializable object*) – Provides the wrapper for the details of why the request failed. If the reasons for failure correspond to POST values, the response object's keys SHOULD correspond to those POST values.

`initialize()`

- Set Content-type for JSON

`success(data)`

When an API call is successful, the JSend object is used as a simple envelope for the results, using the data key.

Parameters `data` (*A JSON-serializable object*) – Acts as the wrapper for any data returned by the API call. If the call returns no data, data should be set to null.

`write(chunk)`

`write_error(status_code, **kwargs)`

Override of RequestHandler.write_error Calls `error()` or `fail()` from JSendMixin depending on which exception was raised with provided reason and status code. :type status_code: int :param status_code: HTTP status code

`class owtf.api.handlers.base.FileRedirectHandler(application, request, **kwargs)`

Bases: `tornado.web.RequestHandler`

`SUPPORTED_METHODS = ['GET']`

`get(file_url)`

`class owtf.api.handlers.base.UIRequestHandler(application, request, **kwargs)`

Bases: `tornado.web.RequestHandler`

`reverse_url(name, *args)`

owtf.api.handlers.config module

owtf.api.handlers.config

`class owtf.api.handlers.config.ConfigurationHandler(application, request, **kwargs)`

Bases: `owtf.api.handlers.base.APIRequestHandler`

Update framework settings and tool paths.

`SUPPORTED_METHODS = ['GET', 'PATCH']`

`get()`

Return all configuration items.

Example request:

```
GET /api/v1/configuration HTTP/1.1
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Vary: Accept-Encoding
```

```
[
  [
    {
      "dirty":false,
      "section":"AUX_PLUGIN_DATA",
      "value":"report",
      "descrip":"Filename for the attachment to be sent",
      "key":"ATTACHMENT_NAME"
    },
    [
      {
        "dirty":false,
        "section":"DICTIONARIES",
        "value":"hydra",
        "descrip":"",
        "key":"BRUTEFORCER"
      }
    ]
]
```

patch()
Update configuration item

Example request:

```
PATCH /api/v1/configuration/ HTTP/1.1
Accept: */*
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
```

Example response:

```
HTTP/1.1 200 OK
Vary: Accept-Encoding
Content-Length: 0
Content-Type: text/html; charset=UTF-8
```

owtf.api.handlers.health module

owtf.api.handlers.health

```
class owtf.api.handlers.health.HealthCheckHandler(application, request, **kwargs)
Bases: owtf.api.handlers.base.APIRequestHandler

API server health check

SUPPORTED_METHODS = ['GET']

get()
A debug endpoint to check whether the application is alive.
```

Example request:

```
GET /debug/health HTTP/1.1
Accept: application/json
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
    'ok': true
}
```

owtf.api.handlers.index module

owtf.api.handlers.index

```
class owtf.api.handlers.index.IndexHandler(application, request, **kwargs)
```

```
Bases: owtf.api.handlers.base.UIRequestHandler
```

Serves the main webapp

```
SUPPORTED_METHODS = ['GET']
```

```
get(path)
```

Render the homepage with all JavaScript and context.

Example request:

```
GET / HTTP/1.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
```

Example response:

```
HTTP/1.1 200 OK
Content-Encoding: gzip
Vary: Accept-Encoding
Server: TornadoServer/5.0.1
Content-Type: text/html; charset=UTF-8
```

[owtf.api.handlers.misc module](#)

[owtf.api.handlers.plugin module](#)

[owtf.api.handlers.report module](#)

[owtf.api.handlers.session module](#)

[owtf.api.handlers.targets module](#)

[owtf.api.handlers.transactions module](#)

[owtf.api.handlers.work module](#)

Module contents

Submodules

[owtf.api.main module](#)

[owtf.api.reporter module](#)

[owtf.api.routes module](#)

[owtf.api.utils module](#)

[owtf.api.utils](#)

`class owtf.api.utils.VersionMatches(api_version)`

Bases: `tornado.routing.Matcher`

Matches path by `version` regex.

`match(request)`

Module contents

`owtf.api.api_assert(condition, *args, **kwargs)`

Assertion to fail with if not condition Asserts that `condition` is `True`, else raises an `APIError` with the provided `args` and `kwargs` :type `condition: bool`

[owtf.cli package](#)

Submodules

[owtf.cli.main module](#)

Module contents

[owtf.db package](#)

Submodules

[owtf.db.database module](#)

[owtf.db.models module](#)

[owtf.db.models](#)

The SQLAlchemy models for every table in the OWTF DB.

```
class owtf.db.models.Command(**kwargs)
    Bases: sqlalchemy.ext.declarative.api.Base

    end_time
    modified_command
    original_command
    plugin_key
    run_time
    start_time
    success
    target_id

class owtf.db.models.ConfigSetting(**kwargs)
    Bases: sqlalchemy.ext.declarative.api.Base

    descrip
    dirty
    key
    section
    value

class owtf.db.models.Error(**kwargs)
    Bases: sqlalchemy.ext.declarative.api.Base

    github_issue_url
    id
    owtf_message
```

```
reported
traceback
user_message

class owtf.db.models.GrepOutput(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Base

    id
    name
    output
    target_id

class owtf.db.models.Mapping(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Base

    category
    mappings
    owtf_code

class owtf.db.models.Plugin(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Base

    attr
    code
    descrip
    file
    group
    key
    max_time
        Consider last 5 runs only, better performance and accuracy
    min_time
        Consider last 5 runs only, better performance and accuracy
    name
    outputs
    title
    type
    works

class owtf.db.models.PluginOutput(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Base

    date_time
    end_time
    error
    id
    output
```

```
output_path
owtf_rank
plugin_code
plugin_group
plugin_key
plugin_type
run_time
start_time
status
target_id
user_notes
user_rank

class owtf.db.models.Resource(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Base

dirty
id
resource
resource_name
resource_type

class owtf.db.models.Session(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Base

active
id
name
targets

class owtf.db.models.Target(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Base

alternative_ips
commands
host_ip
host_name
host_path
id
ip_url
max_owtf_rank
max_user_rank
port_number
```

```
poutputs
scope
target_url
top_domain
top_url
transactions
url_scheme
urls
works

class owtf.db.models.TestGroup(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Base

code
descrip
group
hint
plugins
priority
url

class owtf.db.models.Transaction(**kwargs)
Bases: sqlalchemy.ext.declarative.api.Base

binary_response
data
grep_outputs
id
local_timestamp
login
logout
method
raw_request
response_body
response_headers
response_size
response_status
scope
session_tokens
target_id
time
```

```
time_human
url
class owtf.db.models.Url(**kwargs)
    Bases: sqlalchemy.ext.declarative.api.Base

    scope
    target_id
    url
    visited

class owtf.db.models.Work(**kwargs)
    Bases: sqlalchemy.ext.declarative.api.Base

    active
    id
    plugin_key
    target_id
```

Module contents

owtf.filesrv package

Submodules

owtf.filesrv.handlers module

owtf.filesrv.handlers

```
class owtf.filesrv.handlers.StaticFileHandler(application, request, **kwargs)
    Bases: tornado.web.StaticFileHandler

    get(path, include_body=True)
        This is an edited method of original class so that we can show directory listing and set correct Content-Type
    set_default_headers()
```

[owtf.filesrv.main module](#)

[owtf.filesrv.routes module](#)

[owtf.filsrc.routes](#)

Module contents

[owtf.http package](#)

Submodules

[owtf.http.requester module](#)

[owtf.http.transaction module](#)

owtf.http.transaction

HTTP_Transaction is a container of useful HTTP Transaction information to simplify code both in the framework and the plugins.

class `owtf.http.transaction.HTTPTransaction(timer)`

Bases: `object`

check_if_compressed(`response, content`)

end_request()

End timer for the request

Returns `None`

Return type `None`

get_decode_response()

get_html_link(`link_name=`)

Get the HTML link to the transaction ID

Parameters `link_name` (`str`) – Name of the link

Returns Formatted HTML link

Return type `str`

get_html_link_time(`link_name=`)

Get the HTML link to the transaction ID

Parameters `link_name` (`str`) – Name of the link

Returns Formatted HTML link

Return type `str`

get_id()

Get transaction ID

Returns transaction id

Return type `int`

```
get_raw()  
    Get raw transaction request and response  
  
        Returns Raw string with response and request  
  
        Return type str  
  
get_raw_escaped()  
    Get escaped request and response  
  
        Returns None  
  
        Return type None  
  
get_raw_request()  
    Return raw request  
  
        Returns Raw request  
  
        Return type str  
  
get_raw_response(with_status=True)  
    Get the complete raw response  
  
        Parameters with_status (bool) – Want status?  
  
        Returns Raw response  
  
        Return type str  
  
get_raw_response_body()  
    Return raw response content  
  
        Returns Raw response body  
  
        Return type str  
  
get_raw_response_headers(with_status=True)  
    Get raw response headers for the transaction  
  
        Parameters with_status (bool) – Want status?  
  
        Returns Raw response headers as a string  
  
        Return type str  
  
get_response_headers()  
    Get response headers for the transaction  
  
        Returns  
  
        Return type  
  
get_session_tokens()  
    Get a JSON blob of all captured cookies  
  
        Returns  
  
        Return type  
  
get_status()  
    Get status for transaction response  
  
        Returns Status  
  
        Return type str
```

```
import_proxy_req_resp (request, response)
Import proxy request and response
```

Parameters

- **request** –
- **response** –

Returns**Return type**

```
in_scope ()
```

Check if the transaction is in scope

Returns True if in scope, else False

Return type *bool*

```
init_data (data)
```

Sets the data for the transaction

Parameters **data** (*str*) – Data to set

Returns None

Return type None

```
scope_str ()
```

Get the scope in a string format

Returns scope

Return type *str*

```
set_error (error_message)
```

Set the error message for a transaction

Parameters **error_message** (*str*) – Message to set

Returns None

Return type None

```
set_id (id, html_link_to_id)
```

Sets the transaction id and format an HTML link

Parameters

- **id** (*int*) – transaction id
- **html_link_to_id** (*str*) – HTML link for the id

Returns None

Return type None

```
set_transaction (found, request, response)
```

Response can be “Response” for 200 OK or “Error” for everything else, we don’t care here.

Parameters

- **found** –
- **request** –
- **response** –

Returns

Return type

```
set_transaction_from_db(id, url, method, status, time, time_human, local_timestamp, request_data, raw_request, response_headers, response_size, response_body)
```

Set the transaction from the DB

Parameters

- **id** –
- **url** –
- **method** –
- **status** –
- **time** –
- **time_human** –
- **local_timestamp** –
- **request_data** –
- **raw_request** –
- **response_headers** –
- **response_size** –
- **response_body** –

Returns

Return type

```
start(url, data, method, is_in_scope)
```

Get attributes for a new transaction

Parameters

- **url** (str) – transaction url
- **data** – transaction data
- **method** –
- **is_in_scope** –

Returns

Return type

```
start_request()
```

Start timer for the request

Returns None

Return type None

Module contents

owtf.lib package

Submodules

owtf.lib.cli_options module

owtf.lib.cli_options

Main CLI processing machine

`owtf.lib.cli_options.parse_options(cli_options, valid_groups, valid_types)`
Main arguments processing for the CLI

Parameters

- `cli_options` (*dict*) – CLI args Supplied by user
- `valid_groups` (*list*) – Plugin groups to chose from
- `valid_types` (*list*) – Plugin types to chose from

Returns

Return type

`owtf.lib.cli_options.usage(error_message)`
Display the usage message describing how to use owtf.

Parameters `error_message` (*str*) – Error message to display

Returns None

Return type None

owtf.lib.exceptions module

owtf.lib.exceptions

Declares the framework exceptions and HTTP errors

`exception` `owtf.lib.exceptions.APIError(message, code=400)`

Bases: `tornado.web.HTTPError`

Exception for API-based errors

`exception` `owtf.lib.exceptions.DBIntegrityException(value)`

Bases: `owtf.lib.exceptions.FrameworkException`

`exception` `owtf.lib.exceptions.DatabaseNotRunningException`

Bases: `exceptions.Exception`

`exception` `owtf.lib.exceptions.FrameworkAbortException(value)`

Bases: `owtf.lib.exceptions.FrameworkException`

`exception` `owtf.lib.exceptions.FrameworkException(value)`

Bases: `exceptions.Exception`

```
exception owtf.lib.exceptions.InvalidActionReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidConfigurationReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidErrorReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidMappingReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidMessageReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidParameterType (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidSessionReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidTargetReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidTransactionReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidUrlReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidWorkReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.InvalidWorkerReference (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.PluginAbortException (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.PluginException
    Bases: exceptions.Exception

exception owtf.lib.exceptions.PluginsAlreadyLoaded
    Bases: owtf.lib.exceptions.PluginException

    load_plugins() called twice.

exception owtf.lib.exceptions.PluginsDirectoryDoesNotExist
    Bases: owtf.lib.exceptions.PluginException

    The specified plugin directory does not exist.

exception owtf.lib.exceptions.UnreachableTargetException (value)
    Bases: owtf.lib.exceptions.FrameworkException

exception owtf.lib.exceptions.UnresolvableTargetException (value)
    Bases: owtf.lib.exceptions.FrameworkException
```

owtf.lib.filelock module

owtf.lib.filelock

Implementation of a simple cross-platform file locking mechanism. This is a modified version of code retrieved on 2013-01-01 from <http://www.evanfosmark.com/2009/01/cross-platform-file-locking-support-in-python>. The original code was released under the BSD License, as is this modified version. Modifications in this version:

- Tweak docstrings for sphinx.
- Accept an absolute path for the protected file (instead of a file name relative to cwd).
- Allow timeout to be None.
- Fixed a bug that caused the original code to be NON-threadsafe when the same FileLock instance was shared by multiple threads in one process. (The original was safe for multiple processes, but not multiple threads in a single process. This version is safe for both cases.)
- Added `purge()` function.
- Added `available()` function.
- Expanded API to mimic `threading.Lock` interface: - `__enter__` always calls `acquire()`, and therefore blocks if `acquire()` was called previously. - `__exit__` always calls `release()`. It is therefore a bug to call `release()` from within a context manager. - Added `locked()` function. - Added blocking parameter to `acquire()` method

```
# taken from https://github.com/ilastrik/lazyflow/blob/master/lazyflow/utility/fileLock.py # original version from http://www.evanfosmark.com/2009/01/cross-platform-file-locking-support-in-python/
```

```
class owtf.lib.filelock.FileLock(protected_file_path,           timeout=None,           delay=1,
                                lock_file_contents=None)
```

Bases: object

A file locking mechanism that has context-manager support so you can use it in a `with` statement. This should be relatively cross compatible as it doesn't rely on `msvcrt` or `fcntl` for the locking.

```
exception FileLockException
Bases: exceptions.Exception
```

```
acquire(blocking=True)
```

Acquire the lock, if possible. If the lock is in use, and `blocking` is False, return False. Otherwise, check again every `self.delay` seconds until it either gets the lock or exceeds `timeout` number of seconds, in which case it raises an exception.

Parameters `blocking (bool)` – File blocked or not

Returns True if lock is acquired, else False

Return type `bool`

```
available()
```

Returns True iff the file is currently available to be locked.

Returns True if lockfile is available

Return type `bool`

```
locked()
```

Returns True iff the file is owned by THIS FileLock instance. (Even if this returns false, the file could be owned by another FileLock instance, possibly in a different thread or process).

Returns True if file owned by Filelock instance

Return type *bool*

purge()

For debug purposes only. Removes the lock file from the hard disk.

release()

Get rid of the lock by deleting the lockfile. When working in a *with* statement, this gets automatically called at the end.

Returns None

Return type None

owtf.lib.owtf_process module

Module contents

owtf.managers package

Submodules

owtf.managers.command_register module

owtf.managers.config module

owtf.managers.config_manager

owtf.managers.config.**config_gen_query**(*session, criteria*)

Generate query

Parameters *criteria* (*dict*) – Filter criteria

Returns

Return type

owtf.managers.config.**derive_config_dict**(*config_obj*)

Get the config dict from the obj

Parameters *config_obj* – The config object

Returns

Return type

owtf.managers.config.**derive_config_dicts**(*config_obj_list*)

Derive multiple config dicts

Parameters *config_obj_list* (*list*) – List of all config objects

Returns List of config dicts

Return type *list*

owtf.managers.config.**get_all_config_dicts**(*session, criteria=None*)

Get all config dicts for a criteria

Parameters `criteria` (`dict`) – Filter criteria

Returns Config dict

Return type `dict`

`owtf.managers.config.get_all_tools(session)`

Get all tools from the config DB

Returns Config dict for all tools

Return type `dict`

`owtf.managers.config.get_config_val(session, key)`

Get the value of the key from DB

Parameters `key` (`str`) – Key to lookup

Returns Value

Return type `str`

`owtf.managers.config.get_replacement_dict(session)`

Get the config dict

Returns Replaced dict

Return type `dict`

`owtf.managers.config.get_sections_config(session)`

Get all sections in from the config db

Returns List of sections

Return type `list`

`owtf.managers.config.get_tcp_ports(start_port, end_port)`

Get TCP ports from the config file

Parameters

- `start_port` (`str`) – Start port in a range
- `end_port` (`str`) – End port

Returns Comma-separate string of tcp ports

Return type `str`

`owtf.managers.config.get_udp_ports(start_port, end_port)`

Get UDP ports from the config file

Parameters

- `start_port` – Start port in a range
- `end_port` (`str`) – End port

Returns Comma-separate string of udp ports

Return type `str`

`owtf.managers.config.load_config_file(file_path, fallback_file_path)`

Load YAML format configuration file

Parameters

- `file_path` (`str`) – The path to config file

- **fallback_file_path** (*str*) – The fallback path to config file

Returns config_map

Return type dict

owtf.managers.config.**load_framework_config** (*default*, *fallback*, *root_dir*, *owtf_pid*)

Load framework configuration into a global dictionary.

Parameters

- **default** (*str*) – The path to config file
- **fallback** (*int*) – The fallback path to config file
- **fallback** – OWTF root directory
- **fallback** – PID of running program

Returns None

Return type None

owtf.managers.config.**load_general_config** (*session*, *default*, *fallback*)

Load Db config from file

Parameters

- **session** (*object*) – SQLAlchemy database session
- **default** (*str*) – The fallback path to config file
- **fallback** (*str*) – The path to config file

Returns None

Return type None

owtf.managers.config.**update_config_val** (*session*, *key*, *value*)

Update the configuration value for a key

Parameters

- **key** (*str*) – Key whose value to update
- **value** (*str*) – New value

Returns None

Return type None

owtf.managers.error module

owtf.db.error_manager

Component to handle data storage and search of all errors

owtf.managers.error.**add_error** (*session*, *message*, *trace*)

Add an error to the DB

Parameters

- **message** (*str*) – Message to be added
- **trace** (*str*) – Traceback

Returns None

Return type None

`owtf.managers.error.delete_error(session, error_id)`

Deletes an error from the DB

Parameters `error_id (int)` – ID of the error to be deleted

Returns None

Return type None

`owtf.managers.error.derive_error_dict(error_obj)`

Get the error dict from an object

Parameters `error_obj` – Error object

Returns Error dict

Return type `dict`

`owtf.managers.error.derive_error_dicts(error_obj_list)`

Get error dicts for a list of error objs

Parameters `error_obj_list (list)` – List of error objects

Returns List of error dicts

Return type `list`

`owtf.managers.error.gen_query_error(session, criteria)`

Generates the ORM query using the criteria

Parameters `criteria (dict)` – Filter criteria

Returns

Return type

`owtf.managers.error.get_all_errors(session, criteria=None)`

Get all error dicts based on criteria

Parameters `criteria (dict)` – Filter criteria

Returns Error dicts

Return type `list`

`owtf.managers.error.get_error(session, error_id)`

Get an error based on the id

Parameters `error_id (int)` – Error id

Returns Error dict

Return type `dict`

`owtf.managers.error.update_error(session, error_id, user_message)`

Update an error message in the DB

Parameters

- `error_id (int)` – ID of the error message
- `user_message (str)` – New message

Returns None

Return type None

owtf.managers.mapping module

owtf.managers.mapping

Manages the mapping between different plugin groups and codes

`owtf.managers.mapping.derive_mapping_dict (obj)`

Fetch the mapping dict from an object

Parameters `obj` – The mapping object

Returns Mappings dict

Return type `dict`

`owtf.managers.mapping.derive_mapping_dicts (obj_list)`

Fetches the mapping dicts based on the objects list

Parameters `obj_list (list)` – The plugin object list

Returns Mapping dicts as a list

Return type `list`

`owtf.managers.mapping.get_all_mappings (session)`

Create a mapping between OWTF plugins code and OWTF plugins description.

Returns Mapping dictionary {code: [mapped_code, mapped_description], code2: [mapped_code, mapped_description], ...}

Return type `dict`

`owtf.managers.mapping.get_mapping_category (session, plugin_code)`

Get the categories for a plugin code

Parameters `plugin_code (int)` – The code for the specific plugin

Returns category for the plugin code

Return type `str`

`owtf.managers.mapping.get_mapping_types ()`

In memory data saved when loading db :return: None :rtype: None

`owtf.managers.mapping.get_mappings (session, mapping_type)`

Fetches mappings from DB based on mapping type

Parameters `mapping_type (str)` – Mapping type like OWTF, OWASP (v3, v4, Top 10), NIST, CWE

Returns Mappings

Return type `dict`

`owtf.managers.mapping.load_mappings (session, default, fallback)`

Loads the mappings from the config file

Note: This needs to be a list instead of a dictionary to preserve order in python < 2.7

Parameters

- `session (object)` – SQLAlchemy database session

- **default** (*str*) – The fallback path to config file
- **fallback** (*str*) – The path to config file

Returns None

Return type None

owtf.managers.plugin module

owtf.managers.plugin

This module manages the plugins and their dependencies

`owtf.managers.plugin.derive_plugin_dict (obj)`

Fetch the plugin dict from an object

Parameters `obj` – Plugin object

Returns Plugin dict

Return type *dict*

`owtf.managers.plugin.derive_plugin_dicts (obj_list)`

Fetch plugin dicts from a obj list

Parameters `obj_list` (*list*) – List of plugin objects

Returns List of plugin dicts

Return type *list*

`owtf.managers.plugin.derive_test_group_dict (obj)`

Fetch the test group dict from the obj

Parameters `obj` – The test group object

Returns Test group dict

Return type *dict*

`owtf.managers.plugin.derive_test_group_dicts (obj_list)`

Fetch the test group dicts from the obj list

Parameters `obj_list` (*list*) – The test group object list

Returns Test group dicts in a list

Return type *list*

`owtf.managers.plugin.get_all_plugin_dicts (session, criteria=None)`

Get plugin dicts based on filter criteria

Parameters `criteria` (*dict*) – Filter criteria

Returns List of plugin dicts

Return type *list*

`owtf.managers.plugin.get_all_plugin_groups (session)`

Get all plugin groups from the DB

Returns List of available plugin groups

Return type *list*

`owtf.managers.plugin.get_all_plugin_types(session)`

Get all plugin types from the DB

Returns All available plugin types

Return type *list*

`owtf.managers.plugin.get_all_test_groups(session)`

Get all test groups from th DB

Returns

Return type

`owtf.managers.plugin.get_groups_for_plugins(session, plugins)`

Gets available groups for selected plugins

Parameters `plugins` (*list*) – Plugins selected

Returns List of available plugin groups

Return type *list*

`owtf.managers.plugin.get_plugins_by_group(session, plugin_group)`

Get plugins by plugin group

Parameters `plugin_group` (*str*) – Plugin group

Returns List of plugin dicts

Return type *list*

`owtf.managers.plugin.get_plugins_by_group_type(session, plugin_group, plugin_type)`

Get plugins by group and plugin type

Parameters

- `plugin_group` (*str*) – Plugin group
- `plugin_type` (*str*) – plugin type

Returns List of plugin dicts

Return type *list*

`owtf.managers.plugin.get_plugins_by_type(session, plugin_type)`

Get plugins based on type argument

Parameters `plugin_type` (*str*) – Plugin type

Returns List of plugin dicts

Return type *list*

`owtf.managers.plugin.get_test_group(session, code)`

Get the test group based on plugin code

Parameters `code` (*str*) – Plugin code

Returns Test group dict

Return type *dict*

`owtf.managers.plugin.get_test_groups_config(file_path)`

Reads the test groups from a config file

Note: This needs to be a list instead of a dictionary to preserve order in python < 2.7

Parameters `file_path` (`str`) – The path to the config file

Returns List of test groups

Return type `list`

`owtf.managers.plugin.get_types_for_plugin_group(session, plugin_group)`

Get available plugin types for a plugin group

Parameters `plugin_group` (`str`) – Plugin group

Returns List of available plugin types

Return type `list`

`owtf.managers.plugin.load_plugins(session)`

Loads the plugins from the filesystem and updates their info.

Note: Walks through each sub-directory of `PLUGINS_DIR`. For each file, loads it thanks to the imp module. Updates the database with the information for each plugin:

- ‘title’: the title of the plugin
 - ‘name’: the name of the plugin
 - ‘code’: the internal code of the plugin
 - ‘group’: the group of the plugin (ex: web)
 - ‘type’: the type of the plugin (ex: active, passive, ...)
 - ‘descrip’: the description of the plugin
 - ‘file’: the filename of the plugin
 - ‘internet_res’: does the plugin use internet resources?
-

Returns None

Return type None

`owtf.managers.plugin.load_test_groups(session, file_default, file_fallback, plugin_group)`

Load test groups into the DB.

Parameters

- `test_groups_file` (`str`) – The path to the test groups config
- `plugin_group` (`str`) – Plugin group to load

Returns None

Return type None

`owtf.managers.plugin.plugin_gen_query(session, criteria)`

Generate a SQLAlchemy query based on the filter criteria :param criteria: Filter criteria :type criteria: `dict` :return: :rtype:

`owtf.managers.plugin.plugin_name_to_code(session, codes)`

Given list of names, get the corresponding codes

Parameters `codes` (*list*) – The codes to fetch

Returns Corresponding plugin codes as a list

Return type *list*

[owtf.managers.poutput module](#)

[owtf.managers.resource module](#)

[owtf.managers.session module](#)

[owtf.managers.target module](#)

[owtf.managers.transaction module](#)

[owtf.managers.url module](#)

[owtf.managers.worker module](#)

[owtf.managers.worklist module](#)

Module contents

[owtf.plugin package](#)

Submodules

[owtf.plugin.plugin_handler module](#)

[owtf.plugin.plugin_helper module](#)

[owtf.plugin.plugin_params module](#)

[owtf.plugin.scanner module](#)

Module contents

[owtf.plugin](#)

[owtf.protocols package](#)

Submodules

[owtf.protocols.smb module](#)

[owtf.protocols.smtp module](#)

[owtf.protocols.smtp](#)

Description: This is the OWTF SMTP handler, to simplify sending emails.

Module contents

owtf.proxy package

Submodules

owtf.proxy.cache_handler module

owtf.proxy.cache_handler

Inbound Proxy Module developed by Bharadwaj Machiraju (blog.tunnelshade.in) as a part of Google Summer of Code 2013

class `owtf.proxy.cache_handler.CacheHandler`(*cache_dir*, *request*, *cookie_regex*, *blacklist*)
Bases: `object`

This class will be used by the request handler to either load or dump to cache. Main things that are done here :-
* The request_hash is generated here * The file locks are managed here * .rd files are created here

calculate_hash(*callback=None*)

Based on blacklist boolean the cookie regex is used for filtering of cookies in request_hash generation.
However the original request is not tampered.

Parameters `callback` – Callback function

Returns

Return type

create_response_object()

Create a proxy response object from cache file

Returns

Return type

dump(*response*)

This function takes in a `HTTPResponse` object and dumps the request and response data. It also creates a .rd file with same file name

Note: This is used by transaction logger

Parameters `response` – The proxy response

Returns

Return type

load()

This is the function which is called for every request. If file is not found in cache, then a file lock is created for that and a None is returned.

Returns Load a transaction from cache

Return type

class `owtf.proxy.cache_handler.DummyObject`

Bases: `object`

This class is just used to create a fake response object

`owtf.proxy.cache_handler.request_from_cache(file_path)`

A fake request object is created with necessary attributes

Parameters `file_path` (`str`) – The file path for the cache file

Returns

Return type

`owtf.proxy.cache_handler.response_from_cache(file_path)`

A fake response object is created with necessary attributes

Parameters `file_path` (`str`) – The file path for the cache file

Returns

Return type

[owtf.proxy.gen_cert module](#)

[owtf.proxy.gen_cert](#)

Inbound Proxy Module developed by Bharadwaj Machiraju (blog.tunnelshade.in) as a part of Google Summer of Code 2013

`owtf.proxy.gen_cert.gen_signed_cert(domain, ca_crt, ca_key, ca_pass, certs_folder)`

This function takes a domain name as a parameter and then creates a certificate and key with the domain name(replacing dots by underscores), finally signing the certificate using specified CA and returns the path of key and cert files. If you are yet to generate a CA then check the top comments

Parameters

- `domain` (`str`) – domain for the cert
- `ca_crt` (`str`) – ca.crt file path
- `ca_key` (`str`) – ca.key file path
- `ca_pass` (`str`) – Password for the certificate
- `certs_folder` (`str`) –

Returns Key and cert path

Return type `str`

[owtf.proxy.main module](#)

[owtf.proxy.proxy module](#)

[owtf.proxy.socket_wrapper module](#)

[owtf.proxy.socket_wrapper](#)

Inbound Proxy Module developed by Bharadwaj Machiraju (blog.tunnelshade.in) as a part of Google Summer of Code 2013

```
owtf.proxy.socket_wrapper.wrap_socket (socket, domain, ca_crt, ca_key, ca_pass, certs_folder,  
success=None, failure=None, io=None, **options)
```

Wrap an active socket in an SSL socket.

Parameters

- **socket** –
- **domain** –
- **ca_crt** –
- **ca_key** –
- **ca_pass** –
- **certs_folder** –
- **success** –
- **failure** –
- **io** –
- **options** –

Returns

Return type

owtf.proxy.tor_manager module

owtf.proxy.tor_manager

TOR manager module developed by Marios Kourtesis <name.surname@gmail.com>

```
class owtf.proxy.tor_manager.TOR_manager(args)
```

Bases: object

```
authenticate()
```

This function is handling the authentication process to TOR control connection.

Returns

Return type

```
static is_tor_running()
```

Check if tor is running

Returns True if running, else False

Return type bool

```
static msg_configure_tor()
```

```
static msg_start_tor()
```

```
open_connection()
```

Opens a new connection to TOR control

Returns

Return type

```
renew_ip()
```

Sends an NEWNYM message to TOR control in order to renew the IP address

Returns True if IP is renewed, else False

Return type *bool*

run()

Starts a new TOR_control_process which will renew the IP address.

Returns

Return type

tor_control_process()

This will run in a new process in order to renew the IP address after certain time.

Returns None

Return type None

owtf.proxy.transaction_logger module

Module contents

owtf.shell package

Submodules

owtf.shell.async_subprocess module

owtf.shell.async_subprocess

Inspired from: # <http://code.activestate.com/recipes/440554-module-to-allow-asynchronous-subprocess-use-on-win/>

```
class owtf.shell.async_subprocess.AsyncPopen(args,      bufsize=0,      executable=None,
                                              stdin=None,     stdout=None,    stderr=None,
                                              preexec_fn=None,   close_fds=False,
                                              shell=False,    cwd=None,      env=None,      universal_newlines=False,
                                              startupinfo=None, creationflags=0)
```

Bases: subprocess.Popen

get_conn_maxsize (which, maxsize)

recv (maxsize=None)

recv_err (maxsize=None)

send (input)

send_recv (input=”, maxsize=None)

```
exception owtf.shell.async_subprocess.DisconnectException(value)
```

Bases: exceptions.Exception

```
owtf.shell.async_subprocess.recv_some(p, t=0.1, e=1, tr=5, stderr=0)
```

```
owtf.shell.async_subprocess.send_all(p, data)
```

[owtf.shell.blocking_shell module](#)

[owtf.shell.interactive_shell module](#)

[owtf.shell.pexpect_shell module](#)

Module contents

[owtf.utils package](#)

Submodules

[owtf.utils.app module](#)

[owtf.utils.commands module](#)

[owtf.utils.commands](#)

`owtf.utils.commands.get_command(argv)`

Format command to remove directory and space-separated arguments.

Params `list argv` Arguments for the CLI.

Returns Arguments without directory and space-separated arguments.

Return type list

[owtf.utils.error module](#)

[owtf.utils.error](#)

The error handler provides a centralised control for aborting the application and logging errors for debugging later.

`owtf.utils.error.abort_framework(message)`

Abort the OWTF framework.

Warning If it happens really early and `framework.core.Core` has not been instantiated yet, `sys.exit()` is called with error code -1

Parameters `message (str)` – Descriptive message about the abort.

Returns full message explaining the abort.

Return type str

`owtf.utils.error.user_abort(level, partial_output="")`

This function handles the next steps when a user presses Ctrl-C

Parameters

- `level (str)` – The level which was aborted
- `partial_output (str)` – Partial output generated by the command or plugin

Returns Message to present to the user

Return type str

```
owtf.utils.error.get_option_from_user(options)
```

Give the user options to select

Parameters `options` (`str`) – Set of available options for the user

Returns The different options for the user to choose from

Return type `str`

```
class owtf.utils.error.SentryProxy(sentry_client)
```

Bases: `object`

Simple proxy for sentry client that logs to stderr even if no sentry client exists.

```
capture_exception(exc_info=None, **kwargs)
```

```
owtf.utils.error.get_sentry_client(sentry_key)
```

```
owtf.utils.error.log_and_exit_handler(signum, frame)
```

```
owtf.utils.error.setup_signal_handlers()
```

Setup the handlers

owtf.utils.file module

owtf.utils.file

```
class owtf.utils.file.FileOperations
```

Bases: `object`

```
static codecs_open(*args, **kwargs)
```

Call the original function while checking for errors. If `owtf_clean` parameter is not explicitly passed or if it is set to `True`, it force OWTF to properly exit.

```
static create_missing_dirs(*args, **kwargs)
```

Call the original function while checking for errors. If `owtf_clean` parameter is not explicitly passed or if it is set to `True`, it force OWTF to properly exit.

```
static dump_file(*args, **kwargs)
```

Call the original function while checking for errors. If `owtf_clean` parameter is not explicitly passed or if it is set to `True`, it force OWTF to properly exit.

```
static make_dirs(*args, **kwargs)
```

Call the original function while checking for errors. If `owtf_clean` parameter is not explicitly passed or if it is set to `True`, it force OWTF to properly exit.

```
static mkdir(*args, **kwargs)
```

Call the original function while checking for errors. If `owtf_clean` parameter is not explicitly passed or if it is set to `True`, it force OWTF to properly exit.

```
static open(*args, **kwargs)
```

Call the original function while checking for errors. If `owtf_clean` parameter is not explicitly passed or if it is set to `True`, it force OWTF to properly exit.

```
static rm_tree(*args, **kwargs)
```

Call the original function while checking for errors. If `owtf_clean` parameter is not explicitly passed or if it is set to `True`, it force OWTF to properly exit.

```
owtf.utils.file.catch_io_errors(func)
```

Decorator on I/O functions. If an error is detected, force OWTF to quit properly.

`owtf.utils.file.clean_temp_storage_dirs(owtf_pid)`

Rename older temporary directory to avoid any further confusions.

Returns

Return type None

`owtf.utils.file.cleanup_target_dirs(target_url)`

Cleanup the directories for the specific target

Returns None

Return type None

`owtf.utils.file.create_output_dir_target(target_url)`

Creates output directories for the target URL

Parameters `target_url` (`str`) – The target URL

Returns None

Return type None

`owtf.utils.file.create_temp_storage_dirs(owtf_pid)`

Create a temporary directory in /tmp with pid suffix.

Returns

Return type None

`owtf.utils.file.directory_access(path, mode)`

Check if a directory can be accessed in the specified mode by the current user.

Parameters

- `path` (`str`) – Directory path.
- `mode` (`str`) – Access type.

Returns Valid access rights

Return type `str`

`owtf.utils.file.get_dir_worker_logs()`

Returns the output directory for the worker logs

Returns Path to output directory for the worker logs

Return type `str`

`owtf.utils.file.get_file_as_list(filename)`

Get file contents as a list

Parameters `filename` (`str`) – File path

Returns Output list of the content

Return type `list`

`owtf.utils.file.get_log_path(process_name)`

Get the log file path based on the process name :param process_name: Process name :type process_name: `str` :return: Path to the specific log file :rtype: `str`

`owtf.utils.file.get_logs_dir()`

Get log directory by checking if abs or relative path is provided in config file

`owtf.utils.file.get_output_dir()`

Gets the output directory for the session

Returns The path to the output directory

Return type *str*

```
owtf.utils.file.get_output_dir_target()
```

Returns the output directory for the targets

Returns Path to output directory

Return type *str*

```
owtf.utils.file.get_target_dir(target_url)
```

Gets the specific directory for a target in the target output directory

Parameters *target_url* (*str*) – Target URL for which directory path is needed

Returns Path to the target URL specific directory

Return type *str*

owtf.utils.formatters module

owtf.utils.formatters

CLI string formatting

```
class owtf.utils.formatters.ConsoleFormatter(fmt=None, datefmt=None)
```

Bases: logging.Formatter

Custom formatter to show logging messages differently on Console

```
debug_fmt = '\x1b[92m[*] {} \x1b[0m'
```

```
error_fmt = '\x1b[91m[-] {} \x1b[0m'
```

```
format(record)
```

Choose format according to record level

Parameters *record* (*str*) – Record to format

Returns Formatted string

Return type *str*

```
info_fmt = '\x1b[94m[+] {} \x1b[0m'
```

```
warn_fmt = '\x1b[93m[!] {} \x1b[0m'
```

```
class owtf.utils.formatters.FileFormatter(*args, **kwargs)
```

Bases: logging.Formatter

Custom formatter for log files

owtf.utils.http module

owtf.utils.http

```
owtf.utils.http.container(dec)
```

Meta-decorator (for decorating decorators)

Keeps around original decorated function as a property *orig_func*

Parameters `dec` (*function*) – Decorator to decorate

Returns Decorated decorator

`owtf.utils.http.deep_update(source, overrides)`

Update a nested dictionary or similar mapping.

Modify `source` in place.

Return type `collections.Mapping`

`owtf.utils.http.derive_http_method(method, data)`

Derives the HTTP method from Data, etc

Parameters

- `method` (*str*) – Method to check
- `data` (*str*) – Data to check

Returns Method found

Return type `str`

`owtf.utils.http.extract_method(wrapped_method)`

Gets original method if `wrapped_method` was decorated

Return type `any([types.FunctionType, types.MethodType])`

`owtf.utils.http.is_handler_subclass(cls, classnames=('ViewHandler', 'APIHandler'))`

Determines if `cls` is indeed a subclass of `classnames`

`owtf.utils.http.is_method(method)`

owtf.utils.ip module

owtf.utils.ip

`owtf.utils.ip.get_ip_from_hostname(hostname)`

Get IP from the hostname

Parameters `hostname` (*str*) – Target hostname

Returns IP address of the target hostname

Return type `str`

`owtf.utils.ip.get_ips_from_hostname(hostname)`

Get IPs from the hostname

Parameters `hostname` (*str*) – Target hostname

Returns IP addresses of the target hostname as a list

Return type `list`

`owtf.utils.ip.hostname_is_ip(hostname, ip)`

Test if the hostname is an IP.

Parameters

- `hostname` (*str*) – the hostname of the target.
- `ip` (*str*) – the IP (v4 or v6) of the target.

Returns True if the hostname is an IP, False otherwise.

Return type bool

`owtf.utils.ip.is_internal_ip(ip)`
Parses the input IP and checks if it is a private IP

Parameters ip (str) – IP address

Returns True if it is a private IP, otherwise False

Return type bool

owtf.utils.logger module

owtf.utils.logger

class `owtf.utils.logger.OWTFLLogger`
Bases: object

disable_console_logging (**kwargs)
Disables console logging

Note: Must be called from inside the process because we should remove handler for that root logger. Since we add console handler in the last, we can remove the last handler to disable console logging

Parameters kwargs (dict) – Additional arguments to the logger

Returns

Return type None

enable_logging (**kwargs)
Enables both file and console logging

Note:

- process_name <- can be specified in kwargs
 - Must be called from inside the process because we are kind of overriding the root logger
-

Parameters kwargs (dict) – Additional arguments to the logger

Returns

Return type None

owtf.utils.process module

owtf.utils.process

`owtf.utils.process.check_pid(pid)`
Check whether pid exists in the current process table. UNIX only.

Parameters pid (int) – Pid to check

Returns True if pid exists, else false

Return type *bool*

owtf.utils.pycompat module

owtf.utils.pycompat

Helpers for compatibility between Python 2.x and 3.x.

```
owtf.utils.pycompat.iteritems(d, **kw)
owtf.utils.pycompat.iterkeys(d, **kw)
owtf.utils.pycompat.iterlists(d, **kw)
owtf.utils.pycompat.itervalues(d, **kw)
owtf.utils.pycompat.u(s)
```

owtf.utils.signals module

owtf.utils.signals

Most of it taken from the Flask code.

owtf.utils.strings module

owtf.utils.strings

```
owtf.utils.strings.add_to_dict(from_dict, to_dict)
Add the items from dict a with copy attribute to dict b
```

Parameters

- **from_dict** (*dict*) – Dict to copy from
- **to_dict** (*dict*) – Dict to copy to

Returns None

Return type None

```
owtf.utils.strings.gen_secure_random_str()
```

```
owtf.utils.strings.get_as_list(key_list)
```

Get values for keys in a list

Parameters **key_list** (*list*) – List of keys

Returns List of corresponding values

Return type *list*

```
owtf.utils.strings.get_header_list(key)
```

Get list from a string of values for a key

Parameters **key** (*str*) – Key

Returns List of values

Return type *list*

`owtf.utils.strings.get_random_str(len)`
Function returns random strings of length len

Parameters `len` (*int*) – Length

Returns Random generated string

Return type *str*

`owtf.utils.strings.is_convertable(value, conv)`
Convert a value

Parameters

- `value` –
- `conv` –

Returns

Return type

`owtf.utils.strings.list_to_dict_keys(list)`
Convert a list to dict with keys from list items

Parameters `list` (*list*) – list to convert

Returns The newly formed dictionary

Return type *dict*

`owtf.utils.strings.merge_dicts(a, b)`
Returns a by-value copy contained the merged content of the 2 passed dictionaries

Parameters

- `a` (*dict*) – Dict a
- `b` (*dict*) – Dict b

Returns New merge dict

Return type *dict*

`owtf.utils.strings.multi_replace(text, replace_dict)`

Recursive multiple replacement function :param text: Text to replace :type text: *str* :param replace_dict: The parameter dict to be replaced with :type replace_dict: *dict* :return: The modified text after replacement :rtype: *str*

`owtf.utils.strings.multi_replace_dict(text, replace_dict)`

Perform multiple replacements in one go using the replace dictionary in format: { ‘search’ : ‘replace’ }

Parameters

- `text` (*str*) – Text to replace
- `replace_dict` (*dict*) – The replacement strings in a dict

Returns *str*

Return type

`owtf.utils.strings.pad_key(key)`
Add delimiters.

Parameters `key` (*str*) – Key to pad

Returns Padded key string

Return type str

owtf.utils.strings.**paths_exist** (path_list)

Check if paths in the list exist

Parameters path_list (list) – The list of paths to check

Returns True if valid paths, else False

Return type bool

owtf.utils.strings.**remove_blanks_list** (src)

Removes empty elements from the list

Parameters src (list) – List

Returns New list without blanks

Return type list

owtf.utils.strings.**scrub_output** (output)

Remove all ANSI control sequences from the output

Parameters output (str) – Output to scrub

Returns Scrubbed output

Return type str

owtf.utils.strings.**str2bool** (string)

Converts a string to a boolean

Parameters string (str) – String to convert

Returns Boolean equivalent

Return type bool

owtf.utils.strings.**str_to_dict** (string)

Convert a string to a dict

Parameters string (str) – String to convert

Returns Resultant dict

Return type dict

owtf.utils.strings.**strip_key** (key)

Replaces key with empty space

Parameters key (str) – Key to clear

Returns Empty key

Return type str

owtf.utils.strings.**truncate_lines** (str, num_lines, eol='\\n')

Truncate and remove EOL characters

Parameters

- **str** (str) – String to truncate
- **num_lines** (int) – Number of lines to process
- **EOL** (char) – EOL char

Returns Joined string after truncation

Return type *str*

`owtf.utils.strings.wipe_bad_chars(filename)`

The function wipes bad characters from name of output file

Parameters `filename` (*str*) – The file name to scrub

Returns New replaced file filename

Return type *str*

owtf.utils.timer module

owtf.utils.timer

The time module allows the rest of the framework to time how long it takes for certain actions to execute and present this information in both seconds and human-readable form.

`class owtf.utils.timer.Timer(datetime_format='%d/%m/%Y-%H:%M')`

Bases: `object`

`end_timer(offset='0')`

Sets the end of the timer

Parameters `offset` (*str*) – Timer index

Returns

Return type `None`

`static get_current_date_time()`

Current timestamp

Returns The current time as a timestamp

Return type `datetime`

`get_current_date_time_as_str()`

Returns a datetime object as a string in a particular format

Returns Datetime object in string form

Return type *str*

`get_elapsed_time(offset='0')`

Gets the time elapsed between now and start of the timer in Unix epoch

Parameters `offset` (*str*) – Timer index

Returns Time difference

Return type `datetime`

`get_elapsed_time_as_str(offset='0')`

Returns the time elapsed a nice readable string

Parameters `offset` (*str*) – Timer index

Returns Time elapsed as a string

Return type *str*

`get_end_date_time(offset='0')`

Get the end time for the timer

Parameters `offset` (`str`) – Timer index

Returns End time for the timer as a timestamp

Return type `datetime`

`get_end_date_time_as_str(offset='0')`

Get the end time for the timer as a string

Parameters `offset` (`str`) – Timer index

Returns End time for the timer as a string

Return type `str`

`get_start_date_time(offset='0')`

Get the start time for the timer

Parameters `offset` (`str`) – Timer index

Returns Start time for the timer as a timestamp

Return type `datetime`

`get_start_date_time_as_str(offset='0')`

Get the start time for the timer as a string

Parameters `offset` (`str`) – Timer index

Returns Start time for the timer as a string

Return type `str`

`get_time_as_str(timedelta)`

Get the time difference as a human readable string

Parameters `timedelta` (`datetime.timedelta`) – Time difference

Returns Human readable form for the timedelta

Return type `str`

`get_time_human(seconds_str)`

Generates the human readable string for the timestamp

Parameters `seconds_str` (`str`) – Unix style timestamp

Returns Timestamp in a human readable string

Return type `str`

`start_timer(offset='0')`

Adds a start time to the timer

Parameters `offset` (`str`) – Timer index

Returns The start time for the timer

Return type `datetime`

`timers = {}`

Module contents

2.1.2 Submodules

2.1.3 owtf.config module

owtf.config

The Configuration object parses all configuration files, loads them into memory, derives some settings and provides framework modules with a central repository to get info.

2.1.4 owtf.constants module

owtf.constants

Ranking constants used across the framework.

2.1.5 owtf.core module

2.1.6 owtf.settings module

owtf.settings

It contains all the owtf global configs.

2.1.7 Module contents

owtf.__init__

CHAPTER 3

Configuration

3.1 Database Configuration

3.1.1 Basic Setup

The connection settings for postgres database are present in `~/.owtf/db.cfg`.

```
DATABASE_IP: 127.0.0.1
DATABASE_PORT: 5432
DATABASE_NAME: owtfdb
DATABASE_USER: owtf_db_user
DATABASE_PASS: random_password
```

Note: Before starting OWTF, make sure you have the postgres database server running. This can be easily ensured by using `scripts/db_run.sh`

3.1.2 Database & User Creation

Make use of `scripts/db_setup.sh` to create the postgres db and user if needed.

```
sh scripts/db_setup.sh init
```

3.1.3 Database & User Deletion

Make use of `scripts/db_setup.sh` to delete the postgres db and user when needed.

```
sh scripts/db_setup.sh clean
```

3.2 Framework Configuration (Optional)

Some basic settings like, where should the interface server listen etc.. can be controlled from a config file present at framework/config/framework_config.cfg. All the default values are ready by default.

- The address on which the interface server listens can be changed which will allow you to access the interface over any network.

```
# ----- Interface Server -----
#-----#
SERVER_ADDR: 0.0.0.0
UI_SERVER_PORT: 8009
FILE_SERVER_PORT: 8010
```

CHAPTER 4

Usage

4.1 Starting OWTF

Warning: Before starting OWTF, make sure you have the postgres database server running. This can be easily ensured by using scripts/db_run.sh

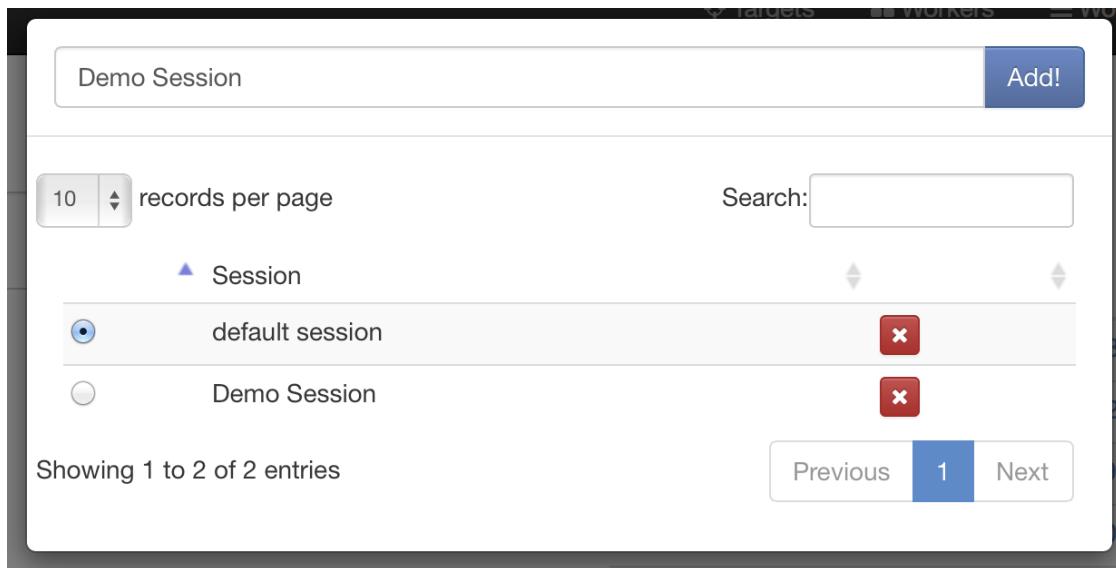
OWTF is controlled and used from a web interface, so you have to launch OWTF from command line and then move on to your favourite browser. OWTF can be launched by

```
./owtf.py
```

The interface url is printed onto the console, so that you can directly click on it

4.2 Using Sessions

In order to keep things simple and separate, OWTF provides support for sessions. A session is your classification of targets. You can have the same target in multiple sessions.



4.3 Managing Targets

The targets page also known as the target manager presents a ton of information. It has three important features

- A textarea to add new targets
- A targets table to go search through targets
- A session manager to manage sessions
- A button to launch plugins against targets
- A button to export targets to a text file - helpful when you have a large number of targets in scope

4.3.1 New Targets

Just add the urls seperated by a new line & press the button to add targets

4.3.2 Remove Targets

To present the information in an orderly fashion, all targets are shown in the form of a table. The labels beside the target name shows the severity of any vulnerability discovered either by OWTF or by user (yes, user can have his own rankings)

4.4 Understanding Plugins

4.4.1 Types of Plugins

There are loads of plugins available in OWTF, but what is interesting is their categorization. All the plugins are categorized into multiple groups and types

- WEB

Add Targets

```
http://testhtml5.vulnweb.com  
http://vicnum.ciphertechs.com  
http://www.webscantest.com  
http://blasze.com/xsstestsuite/  
http://zero.webappsecurity.com  
http://testphp.vulnweb.com  
http://testaspnet.vulnweb.com  
http://testasp.vulnweb.com  
http://demo.testfire.net  
http://hackademic1.teilar.gr
```

Add Targets!

Fig. 4.1: Multiple targets can be added at once

The screenshot shows a web-based interface for managing targets. At the top left, there is a dropdown menu set to "10 records per page". To its right is a search bar containing the text "vulnweb". Below these are two sections: "Target" and "Actions". The "Target" section lists four entries, each with a checkbox, a URL, an IP address, and a color-coded risk level (Low, Medium, or Info). The "Actions" section to the right of each entry contains two buttons: a yellow minus sign and a red X. Below the table, a message indicates "Showing 1 to 4 of 4 entries (filtered from 11 total entries)". At the bottom right, there are navigation buttons for "Previous", "1", and "Next".

| | | |
|---|---|-----------------|
| 10 | records per page | Search: vulnweb |
| Target | | |
| <input type="checkbox"/> | http://testphp.vulnweb.com/ (176.28.50.165) | Low |
| <input type="checkbox"/> | http://testasp.vulnweb.com/ (87.230.29.167) | Medium |
| <input type="checkbox"/> | http://testhtml5.vulnweb.com/#/latest (176.28.50.165) | Info |
| <input type="checkbox"/> | http://testaspnet.vulnweb.com/ (87.230.29.167) | Info |
| Showing 1 to 4 of 4 entries (filtered from 11 total entries) | | |
| Previous 1 Next | | |

Fig. 4.2: All the targets in the present session are shown in the targets table. A search box can be used to search among the targets

- active
- external
- grep
- passive
- semi-passive
- NET
 - active
 - bruteforce
- AUX
 - se
 - exploit etc...

4.4.2 Launching Plugins

Plugins can be launched from the targets table or from the individual target report. In order to launch plugins against multiple targets, select the targets from the target manager and launch plugins

| | | | | | |
|--------------------------|--------------|---|--------|-----|---|
| <input type="checkbox"/> | OWTF-IG-005 | Application Discovery | active | web | Active probing for app discovery |
| <input type="checkbox"/> | OWTF-WVS-001 | Arachni Unauthenticated | active | web | Active Vulnerability Scanning without credentials via Arachni |
| <input type="checkbox"/> | OWTF-CM-008 | HTTP Methods and XST | active | web | Active probing for HTTP methods |
| <input type="checkbox"/> | OWTF-CM-003 | Infrastructure Configuration Management | active | web | Active Probing for fingerprint analysis |
| <input type="checkbox"/> | OWTF-WVS-002 | Nikto Unauthenticated | active | web | Active Vulnerability Scanning without credentials via nikto |
| <input type="checkbox"/> | OWTF-CM-006 | Old Backup and Unreferenced Files | active | web | Active probing for juicy files (DirBuster) |
| <input type="checkbox"/> | OWTF-WVS-006 | Skipfish Unauthenticated | active | web | Active Vulnerability Scanning without credentials via Skipfish |
| <input type="checkbox"/> | OWTF-CM-001 | Testing for SSL-TLS | active | web | Active probing for SSL configuration |
| <input type="checkbox"/> | OWTF-WSP-001 | Visit URLs | active | web | Visit URLs found by other tools, some could be sensitive: need permission |
| <input type="checkbox"/> | OWTF-WVS-004 | W3AF Unauthenticated | active | web | Active Vulnerability Scanning without credentials via w3af |
| <input type="checkbox"/> | OWTF-WVS-003 | Wapiti Unauthenticated | active | web | Active Vulnerability Scanning without credentials via Wapiti |
| <input type="checkbox"/> | OWTF-IG-004 | Web Application Fingerprint | active | web | Active probing for fingerprint analysis |
| <input type="checkbox"/> | OWTF-WVS-005 | Websecurify Unauthenticated | active | web | Active Vulnerability Scanning without credentials via Websecurify |

Fig. 4.3: To know more about any plugin, read the help text present in the last column of plugin launcher

The screenshot shows the MacinOWTF web interface. At the top, there's a header with "default session" and a flag icon. To the right is a green button labeled "Run Plugins" with a lightning bolt icon. Below the header, there are search and filter controls: "records per page" set to 10, and a search bar containing the text "vulnweb". The main area displays a table titled "Target" with four entries:

| | Target | Actions |
|-------------------------------------|---|--|
| <input checked="" type="checkbox"/> | http://testphp.vulnweb.com/ (176.28.50.165) | Low - x |
| <input checked="" type="checkbox"/> | http://testasp.vulnweb.com/ (87.230.29.167) | Medium - x |
| <input checked="" type="checkbox"/> | http://testhtml5.vulnweb.com/#/latest (176.28.50.165) | Info - x |
| <input checked="" type="checkbox"/> | http://testaspnet.vulnweb.com/ (87.230.29.167) | Info - x |

Below the table, a message says "Showing 1 to 4 of 4 entries (filtered from 11 total entries)". To the right are navigation buttons: "Previous", a blue "1", and "Next".

Fig. 4.4: Multi select targets to launch plugins against them

4.5 Analyzing results

After the execution of plugins, you can navigate to the individual target report to go through the results of the plugins executed for that target. The report looks like this

Individual aspects for going through the report

4.5.1 Understanding plugin report

For better organization, all plugins of the same test code are grouped together. When you open a plugin report and click on a test code, you get to see the related plugins that are run for that target

Each test group has an expandable report. The text of the link consists of three parts

- Code of the test group as per the mapping (Eg: **OWTF-CM-008**)
- Name of the test group as per the mapping (Eg: **HTTP Methods and XST**)
- Pentester translations for the code (Eg: **PUT,TRACE, WebDAV etc..**)

Now if you proceed to select a plugin type, you can see the corresponding report

The details presented in a plugin report are:

- Run time of the plugin
- Time interval during which it was running

The screenshot shows a search interface for plugins. At the top, there are two buttons: "Launch Individually" and "Launch in groups". Below these are search filters: "records per page" set to 10, and a search bar containing "semi passive". A table lists six plugins:

| | Code | Name | Type | Group | Help |
|--------------------------|-------------|--|--------------|-------|---|
| <input type="checkbox"/> | OWTF-CM-008 | HTTP Methods and XST | semi passive | web | Normal request for HTTP methods analysis |
| <input type="checkbox"/> | OWTF-IG-002 | Search engine discovery reconnaissance | semi passive | web | Metadata analysis |
| <input type="checkbox"/> | OWTF-SM-001 | Session Management Schema | semi passive | web | Normal requests to gather session management info |
| <input type="checkbox"/> | OWTF-IG-001 | Spiders Robots and Crawlers | semi passive | web | Normal request for robots.txt analysis |
| <input type="checkbox"/> | OWTF-DV-004 | Testing for Cross site flashing | semi passive | web | Normal requests for XSF analysis |
| <input type="checkbox"/> | OWTF-IG-004 | Web Application Fingerprint | semi passive | web | Normal requests to gather fingerprint info |

Below the table are five search buttons: "Search Code", "Search Name", "Search Type", "Search Group", and "Search Help". At the bottom, it says "Showing 1 to 6 of 6 entries (filtered from 137 total entries)" and has "Previous", "1", and "Next" buttons. A "Run!" button is located at the bottom right.

Fig. 4.5: Search and select plugins individually when needed

The screenshot shows a selection interface for plugins. At the top, there are two buttons: "Launch Individually" and "Launch in groups". Below these are two sections: "Plugin Groups" and "Plugin Types".

Plugin Groups:

- net
- web

Plugin Types:

- active
- brute-force
- external
- grep
- passive
- semi passive

A "Run!" button is located at the bottom right.

Fig. 4.6: Select plugins in groups when needed

<http://crackme.cenzic.com/Kelev/view/home.php> Critical

(68.233.193.133)

Filter Refresh Run Plugins User Sessions Logs

OWTF-AJ-001 Testing for AJAX Vulnerabilities

OWTF-AJ-002 Testing for AJAX

OWTF-AT-001 Testing for Credentials Transport Passwords in clear-text

OWTF-AT-002 Testing for User Enumeration User Enumeration

OWTF-AT-003 Default or Guessable User Account Default accounts

Fig. 4.7: Target report

OWTF-CM-008 HTTP Methods and XST PUT, TRACE, WebDAV, etc

Type: external passive semi passive ?

OWTF-CM-008 HTTP Methods and XST PUT, TRACE, WebDAV, etc

Type: external passive semi passive ?

Semi passive OWTF-CM-008 Like Info Warning Alert Bell Print

| RUNTIME | TIME INTERVAL | STATUS | OUTPUT FILES | ACTIONS |
|-----------|--------------------------------------|------------|---------------------|---------------------------------------|
| 5s, 592ms | 19/09/2014-21:06 19/09/2014-21:06 | Successful | Browse | Edit Delete |

Notes

MORE DETAILS

HTTP Transactions

| Request | Response |
|--|--|
| <pre>OPTIONS http://demo.testfire.net HTTP/1.1 Host: demo.testfire.net Accept-Encoding: identity User-Agent: Mozilla/5.0 (X11; Linux i686; rv:6.0) Gecko/20100101 Firefox/15.0</pre> | <pre>200 OK Content-Length: 0 X-Powered-By: ASP.NET X-Http-Reason: OK Server: Microsoft-IIS/6.0 Allow: OPTIONS, TRACE, GET, HEAD Date: Fri, 19 Sep 2014 18:08:10 GMT Public: OPTIONS TRACE GET HEAD DOCT</pre> |

- Status of the plugin (i.e if it was aborted by user etc..)
- A button to rerun the plugin
- A button to delete the plugin output
- A button to add notes
- Actual plugin output

If you click on the **Browse** button, then any file saved by the plugin can be seen

Index of

- [..](#)
- [curl OPTIONS Check 1.txt](#)
- [curl OPTIONS Check 2.txt](#)

Index of

- [..](#)
- [Arachni.txt](#)
- [arachni_report.txt](#)
- [arachni_report2014-09-11_01_14_22.afr](#)
- [arachni_report2014-09-11_01_14_22.html](#)
- [arachni_report2014-09-11_01_14_22.txt](#)
- [arachni_report2014-09-11_01_14_22.xml](#)

Fig. 4.8: Files of Arachni active plugin

4.5.2 Saving your analysis

Once you start analyzing the plugin results, there is a need for ranking those findings along with saving some necessary information if needed. OWTF has both these features

Manual Ranking

In order to rank a plugin output, you can use the ranking buttons based on severity

The figure consists of three vertically stacked screenshots of a web application interface. Each screenshot shows a list of findings under the heading "OWTF-WVS-001 Arachni Unauthenticated". At the top of each screen is a status bar with a "Type:" dropdown set to "active" and another for "external", and a "Info" button.

- Top Screenshot (Info):** The background is light green. The "Info" button is highlighted. The finding status is "Active". The severity is labeled "Info". The ranking buttons at the bottom are green.
- Middle Screenshot (Low):** The background is light blue. The "Low" button is highlighted. The finding status is "Active". The severity is labeled "Low". The ranking buttons at the bottom are blue.
- Bottom Screenshot (Medium):** The background is yellow. The "Medium" button is highlighted. The finding status is "Active". The severity is labeled "Medium". The ranking buttons at the bottom are orange.

Notes

Ranking is not the only thing, you can also write and save notes as well. Click on the **NOTES** button to open an editor and once you are done, click on the same button to save and close the editor

4.5.3 Advanced Filter

Advanced filter is used to filter the plugin results. Click on the **FILTER** button in the target report and you are good to go

As it can be seen from above image, you can filter the plugin outputs based on multiple criteria. You can even change the mapping of the results. Let us try the latest OWASP v4

4.5.4 Transaction Log

All the transactions that ever happened through the OWTF proxy can be searched through transaction log. You can search in multiple fields. A sample look of the transaction log is in

OWTF-WVS-001 Arachni Unauthenticated

Type: active external

Active

High

Like | Share | Print | Alert | Report

OWTF-WVS-001 Arachni Unauthenticated

Type: active external

Active

Critical

Like | Share | Print | Alert | Report

| RUNTIME | TIME INTERVAL | STATUS | DELETE |
|----------|--------------------------------------|------------|--------|
| 0s, 20ms | 11/09/2014-16:45 11/09/2014-16:45 | Successful | |

Admin interface found @ <http://sometarget.com/workarea/login.aspx>

Screenshot

body p

Advanced Filter

Status

Aborted Aborted (by user) Successful

Plugin group

web

Mapping

NIST OWASP_V3 OWASP_V4

Owtf rank

-1

User rank

-1 1 2 3 4 5

Plugin type

active external grep passive semi_passive

[Clear Filters!](#)

OTG-INPVAL-017 Testing for HTTP Splitting/Smuggling

OTF-INFO-003 Review Webserver Metafiles for Information Leakage robots.txt Analysis

OTG-INFO-001 Conduct Search Engine Discovery and Reconnaissance Google Hacking, Metadata

Info

OTG-INFO-006 Identify application entry points Crawling

High

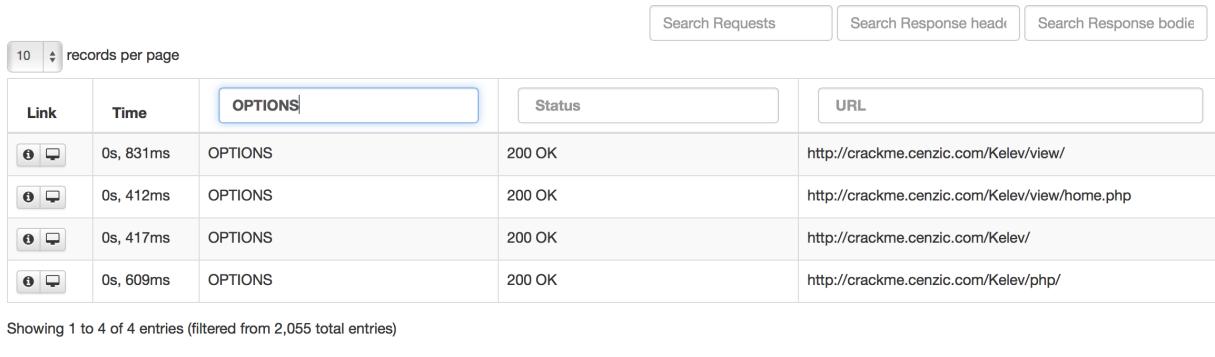
OTG-INFO-002 Fingerprint Web Server What is that site running?

Medium

OTG-INFO-004 Enumerate Applications on Webserver Port Scanning, Whois

OTG-ERR-001 Analysis of Error Codes Error Messages

the image below.



The screenshot shows a search results table for OPTIONS requests. The table has columns: Link, Time, OPTIONS, Status, and URL. There are four entries:

| Link | Time | OPTIONS | Status | URL |
|------|-----------|---------|--------|---|
| | 0s, 831ms | OPTIONS | 200 OK | http://crackme.cenzic.com/Kelev/view/ |
| | 0s, 412ms | OPTIONS | 200 OK | http://crackme.cenzic.com/Kelev/view/home.php |
| | 0s, 417ms | OPTIONS | 200 OK | http://crackme.cenzic.com/Kelev/ |
| | 0s, 609ms | OPTIONS | 200 OK | http://crackme.cenzic.com/Kelev/php/ |

Showing 1 to 4 of 4 entries (filtered from 2,055 total entries)

There are two ways in which individual transactions can be viewed

- Each transaction in new tab
- Transaction in a modal window

Clicking on the info button will open a modal window which allows you to navigate back & forth between the filtered transactions. The search words are highlighted as well.



The screenshot shows a detailed view of an OPTIONS request in a modal window. The modal has tabs for Request and Response. The Request tab shows the following headers:

```

OPTIONS http://crackme.cenzic.com/Kelev/view/ HTTP/1.1
Host: crackme.cenzic.com
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:6.0) Gecko/20100101 Firefox/6.0
Proxy-Connection: Keep-Alive
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip, deflate

```

The modal also displays the transaction details at the bottom:

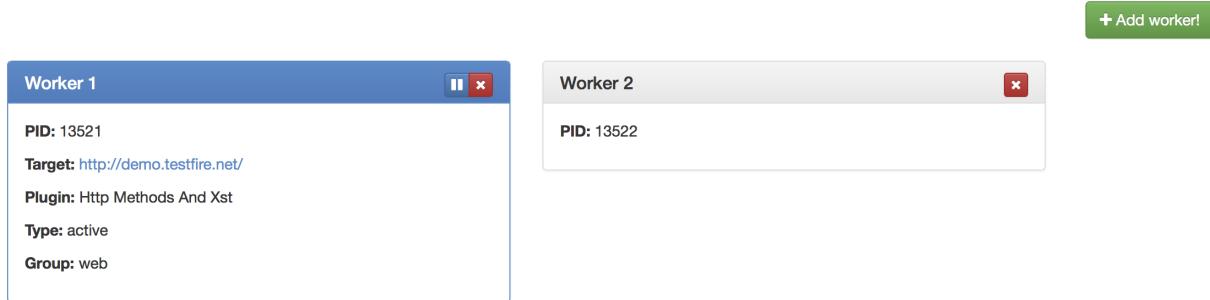
ID: 339 TIME: 0s, 831ms 1 of 4 (filtered from 2055)

41ms OPTIONS 200 OK http://crackme.cenzic.com/Kelev/

4.6 Managing Workers

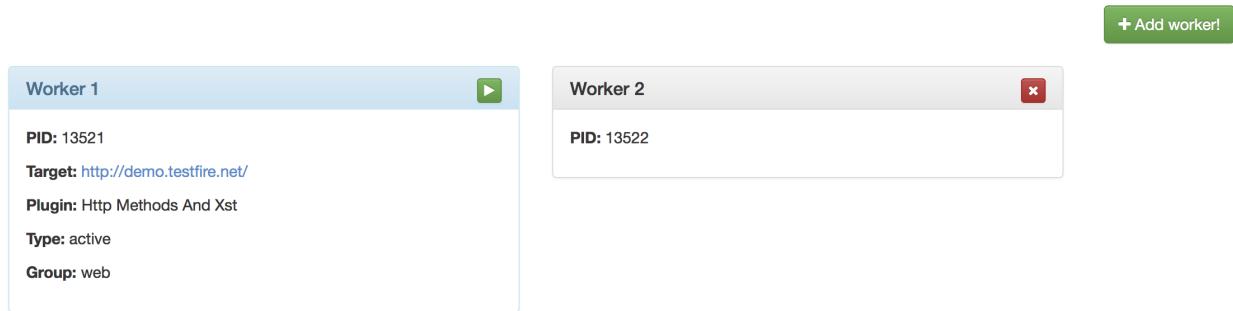
Workers are the actual processes that run the plugins. Control over these worker processes is provided from the worker manager page.

There are three main controls in the worker manager:



4.6.1 Pausing/Resuming Workers

You can **pause/resume** all the workers at the same time or pause them individually through the workers page. We care a lot about your time. If your Internet connection down or if any target is not responding and your web vulnerability scanner plugin is halfway through? Don't worry, we got your back. All you have to do is pause the worker and resume it when the target is back up. Isn't this l33t?



4.6.2 Abort Workers

You can **abort** any worker. If you wish to abort any plugin during execution, just click on the red cross. Do the same if you wish to remove an extra idle worker.

4.6.3 Add Workers

You can **add new workers** on the fly if you have many targets and are running many plugins simultaneously.

Warning: Maximum of one plugin per target will be running at any moment in time

The screenshot shows the OWASP OWTF Worklist Manager interface. At the top, there's a navigation bar with links for Targets, Workers, Worklist, Settings, PluginHack, and Help. Below the navigation bar, there are four worker cards:

- Worker 1:** PID: 3540, Target: <http://zero.webappsecurity.com/>, Plugin: Testing For Dos Locking Customer Accounts, Type: external, Group: web.
- Worker 2:** PID: 3542, Target: <http://www.webscantest.com/>, Plugin: Testing For Captcha, Type: external, Group: web.
- Worker 3:** PID: 5108, Target: <http://blasze.com/xsstestsuite/>, Plugin: Storing Too Much Data In Session, Type: external, Group: web.
- Worker 4:** PID: 5688, Target: <http://testaspnet.vulnweb.com/>, Plugin: Bypassing Authorization Schema, Type: external, Group: web.

A green button at the top right says "+ Add worker!".

4.7 Controlling Worklist

work When any plugin is launched against a target, it adds a (plugin, target) combination to the worklist. This combination is known as work.

worklist The list consisting of all work which are yet to be assigned to a worker.

Worklist can be managed from the worklist manager which looks like this

| Est. Time (min) | Actions | Target | Plugin Group | Plugin Type | Plugin Name |
|-----------------|-------------|---|--------------|--------------|----------------------|
| 0s, 36ms | [Pause] [X] | http://demo.testfire.net/ | web | passive | HTTP Methods and XST |
| 7s, 354ms | [Pause] [X] | http://demo.testfire.net/ | web | semi passive | HTTP Methods and XST |
| 0s, 8ms | [Pause] [X] | http://demo.testfire.net/ | web | external | HTTP Methods and XST |

Showing 1 to 3 of 3 entries

[Pause All] [Resume All]

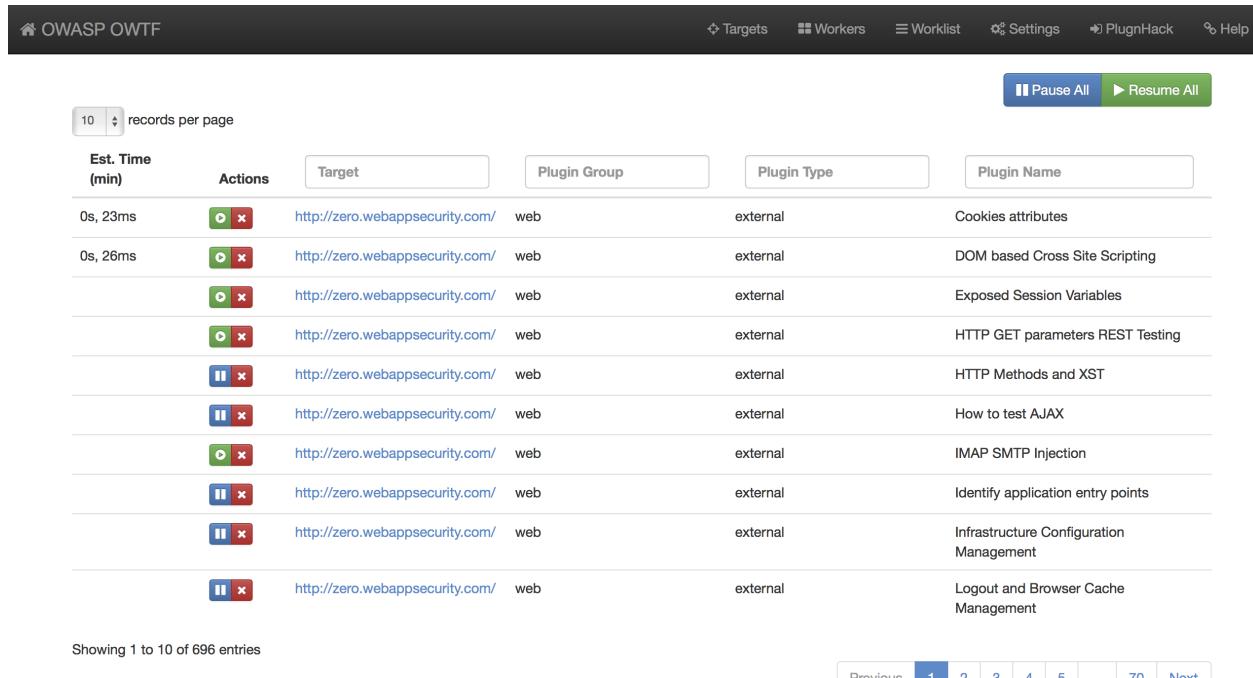
Previous 1 Next

Worklist table provides interesting information like:

- Estimated time for which the plugin will run
- All details about the plugin and the target against which it is launched

4.7.1 Pausing Work

Individual works or whole worklist can be paused. This will stop the work from getting assigned to any worker. The interesting part is worklist is persistent, i.e. if you pause the whole worklist and exit OWTF, the works will still be there in paused state when you start OWTF again.



The screenshot shows the OWASP OWTF web interface. At the top, there is a navigation bar with links for Targets, Workers, Worklist, Settings, PluginHack, and Help. Below the navigation bar is a toolbar with a dropdown for records per page (set to 10), a Pause All button (blue), and a Resume All button (green).

The main area is a table with the following columns: Est. Time (min), Actions, Target, Plugin Group, Plugin Type, and Plugin Name. The table lists 10 entries out of 696, all targeting <http://zero.webappsecurity.com/> and categorized under 'web'.

| Est. Time (min) | Actions | Target | Plugin Group | Plugin Type | Plugin Name |
|-----------------|---------|---|--------------|-------------|---|
| 0s, 23ms | | http://zero.webappsecurity.com/ | web | external | Cookies attributes |
| 0s, 26ms | | http://zero.webappsecurity.com/ | web | external | DOM based Cross Site Scripting |
| | | http://zero.webappsecurity.com/ | web | external | Exposed Session Variables |
| | | http://zero.webappsecurity.com/ | web | external | HTTP GET parameters REST Testing |
| | | http://zero.webappsecurity.com/ | web | external | HTTP Methods and XST |
| | | http://zero.webappsecurity.com/ | web | external | How to test AJAX |
| | | http://zero.webappsecurity.com/ | web | external | IMAP SMTP Injection |
| | | http://zero.webappsecurity.com/ | web | external | Identify application entry points |
| | | http://zero.webappsecurity.com/ | web | external | Infrastructure Configuration Management |
| | | http://zero.webappsecurity.com/ | web | external | Logout and Browser Cache Management |

Showing 1 to 10 of 696 entries

4.7.2 Deleting Work

Any work can be deleted from the worklist. The search boxes will help in filtering of the works when there are many entries.

CHAPTER 5

Troubleshooting

- Unable to install **pycurl** library, getting **main.ConfigurationError: Could not run curl-config?**

Luckily, we have faced this issue. If you ran the install script and still got this error, you can let us know. If not, check [this issue](#) on how to fix it.

- Unable to run OWTF because of **ImportError: No module named cryptography.hazmat.bindings.openssl.binding?**

This actually means you do not have cryptography python module installed. It is recommended to rerun the install script (or) to just install the missing python libraries using the following command.

```
pip2 install --upgrade -r install/owtf.pip
```

- Unable to run OWTF because of **TypeError: parse_requirements() missing 1 required keyword argument: 'session'**

This is because of an older version of pip installed in your System. To resolve this run the following commands

```
pip install --upgrade pip (run as root if required)
python install/install.py
```


CHAPTER 6

Want Help or Request a feature?

There are many ways in which you can reach the OWTF Team

- [IRC channel \(irc.freenode.net\)](#)
- [Github Issue Tracker](#)
- [User mailing list](#)
- [Developers mailing list](#)

Python Module Index

O

owtf, 47
owtf.api, 9
owtf.api.handlers, 9
owtf.api.handlers.base, 5
owtf.api.handlers.config, 6
owtf.api.handlers.health, 7
owtf.api.handlers.index, 8
owtf.api.utils, 9
owtf.cli, 10
owtf.config, 47
owtf.constants, 47
owtf.db, 14
owtf.db.models, 10
owtf.filesrv, 15
owtf.filesrv.handlers, 14
owtf.filesrv.routes, 15
owtf.http, 19
owtf.http.transaction, 15
owtf.lib, 22
owtf.lib.cli_options, 19
owtf.lib.exceptions, 19
owtf.lib.filelock, 21
owtf.managers, 31
owtf.managers.config, 22
owtf.managers.error, 24
owtf.managers.mapping, 26
owtf.managers.plugin, 27
owtf.plugin, 31
owtf.protocols, 32
owtf.protocols.smtp, 31
owtf.proxy, 35
owtf.proxy.cache_handler, 32
owtf.proxy.gen_cert, 33
owtf.proxy.socket_wrapper, 33
owtf.proxy.tor_manager, 34
owtf.settings, 47
owtf.shell, 36
owtf.shell.async_subprocess, 35
owtf.utils, 47
owtf.utils.commands, 36
owtf.utils.error, 36
owtf.utils.file, 37
owtf.utils.formatters, 39
owtf.utils.http, 39
owtf.utils.ip, 40
owtf.utils.logger, 41
owtf.utils.process, 41
owtf.utils.pycompat, 42
owtf.utils.signals, 42
owtf.utils.strings, 42
owtf.utils.timer, 45

Index

A

abort_framework() (in module owtf.utils.error), 36
acquire() (owtf.lib.filelock.FileLock method), 21
active (owtf.db.models.Session attribute), 12
active (owtf.db.models.Work attribute), 14
add_error() (in module owtf.managers.error), 24
add_to_dict() (in module owtf.utils.strings), 42
alternative_ips (owtf.db.models.Target attribute), 12
api_assert() (in module owtf.api), 9
APIError, 19
APIRequestHandler (class in owtf.api.handlers.base), 5
AsyncPopen (class in owtf.shell.async_subprocess), 35
attr (owtf.db.models.Plugin attribute), 11
authenticate() (owtf.proxy.tor_manager.TOR_manager method), 34
available() (owtf.lib.filelock.FileLock method), 21

B

binary_response (owtf.db.models.Transaction attribute), 13

C

CacheHandler (class in owtf.proxy.cache_handler), 32
calculate_hash() (owtf.proxy.cache_handler.CacheHandler method), 32
capture_exception() (owtf.utils.error.SentryProxy method), 37
catch_io_errors() (in module owtf.utils.file), 37
category (owtf.db.models.Mapping attribute), 11
check_if_compressed() (owtf.http.transaction.HTTPTransaction method), 15
check_pid() (in module owtf.utils.process), 41
clean_temp_storage_dirs() (in module owtf.utils.file), 37
cleanup_target_dirs() (in module owtf.utils.file), 38
code (owtf.db.models.Plugin attribute), 11
code (owtf.db.models.TestGroup attribute), 13
codecs_open() (owtf.utils.file.FileOperations static method), 37
Command (class in owtf.db.models), 10

commands (owtf.db.models.Target attribute), 12
config_gen_query() (in module owtf.managers.config), 22
ConfigSetting (class in owtf.db.models), 10
ConfigurationHandler (class in owtf.api.handlers.config), 6
ConsoleFormatter (class in owtf.utils.formatters), 39
container() (in module owtf.utils.http), 39
create_missing_dirs() (owtf.utils.file.FileOperations static method), 37
create_output_dir_target() (in module owtf.utils.file), 38
create_response_object() (owtf.proxy.cache_handler.CacheHandler method), 32
create_temp_storage_dirs() (in module owtf.utils.file), 38

D

data (owtf.db.models.Transaction attribute), 13
DatabaseNotRunningException, 19
date_time (owtf.db.models.PluginOutput attribute), 11
DBIntegrityException, 19
debug_fmt (owtf.utils.formatters.ConsoleFormatter attribute), 39
deep_update() (in module owtf.utils.http), 40
delete_error() (in module owtf.managers.error), 25
derive_config_dict() (in module owtf.managers.config), 22
derive_config_dicts() (in module owtf.managers.config), 22
derive_error_dict() (in module owtf.managers.error), 25
derive_error_dicts() (in module owtf.managers.error), 25
derive_http_method() (in module owtf.utils.http), 40
derive_mapping_dict() (in module owtf.managers.mapping), 26
derive_mapping_dicts() (in module owtf.managers.mapping), 26
derive_plugin_dict() (in module owtf.managers.plugin), 27
derive_plugin_dicts() (in module owtf.managers.plugin), 27

```

derive_test_group_dict()           (in      module   gen_signed_cert() (in module owtf.proxy.gen_cert), 33
                                owtf.managers.plugin), 27
derive_test_group_dicts()          (in      module   get()        (owtf.api.handlers.base.FileRedirectHandler
                                owtf.managers.plugin), 27
                                method), 6
descrip (owtf.db.models.ConfigSetting attribute), 10
descrip (owtf.db.models.Plugin attribute), 11
descrip (owtf.db.models.TestGroup attribute), 13
directory_access() (in module owtf.utils.file), 38
dirty (owtf.db.models.ConfigSetting attribute), 10
dirty (owtf.db.models.Resource attribute), 12
disable_console_logging()
    (owtf.utils.logger.OWTFLLogger     method), 22
    41
DisconnectException, 35
DummyObject (class in owtf.proxy.cache_handler), 32
dump()      (owtf.proxy.cache_handler.CacheHandler
            method), 32
dump_file() (owtf.utils.file.FileOperations static method),
            37

```

E

```

enable_logging()      (owtf.utils.logger.OWTFLLogger
                      method), 41
end_request()        (owtf.http.transaction.HTTPTransaction
                      method), 15
end_time (owtf.db.models.Command attribute), 10
end_time (owtf.db.models.PluginOutput attribute), 11
end_timer()          (owtf.utils.timer.Timer method), 45
Error (class in owtf.db.models), 10
error (owtf.db.models.PluginOutput attribute), 11
error()              (owtf.api.handlers.base.APIRequestHandler
                      method), 5
error_fmt            (owtf.utils.formatters.ConsoleFormatter
                      attribute), 39
extract_method() (in module owtf.utils.http), 40

```

F

```

fail()              (owtf.api.handlers.base.APIRequestHandler
                      method), 5
file (owtf.db.models.Plugin attribute), 11
FileFormatter (class in owtf.utils.formatters), 39
FileLock (class in owtf.lib.filelock), 21
FileLock.FileLockException, 21
FileOperations (class in owtf.utils.file), 37
FileRedirectHandler (class in owtf.api.handlers.base), 6
format()             (owtf.utils.formatters.ConsoleFormatter
                      method), 39
FrameworkAbortException, 19
FrameworkException, 19

```

G

```

gen_query_error() (in module owtf.managers.error), 25
gen_secure_random_str() (in module owtf.utils.strings),
                        42
get()                (owtf.api.handlers.base.FileRedirectHandler
                      method), 6
get()                (owtf.api.handlers.config.ConfigurationHandler
                      method), 6
get()                (owtf.api.handlers.health.HealthCheckHandler
                      method), 7
get()                (owtf.api.handlers.index.IndexHandler method), 8
get()                (owtf.filesrv.handlers.StaticFileHandler method), 14
get_all_config_dicts() (in module owtf.managers.config),
                       22
get_all_errors() (in module owtf.managers.error), 25
get_all_mappings() (in module owtf.managers.mapping),
                   26
get_all_plugin_dicts() (in module owtf.managers.plugin),
                      27
get_all_plugin_groups() (in      module
                           owtf.managers.plugin), 27
get_all_plugin_types() (in      module
                           owtf.managers.plugin), 27
get_all_test_groups() (in module owtf.managers.plugin),
                      28
get_all_tools() (in module owtf.managers.config), 23
get_as_list() (in module owtf.utils.strings), 42
get_command() (in module owtf.utils.commands), 36
get_config_val() (in module owtf.managers.config), 23
get_conn_maxsize() (owtf.shell.async_subprocess.AsyncPopen
                     method), 35
get_current_date_time() (owtf.utils.timer.Timer static
                         method), 45
get_current_date_time_as_str() (owtf.utils.timer.Timer
                               method), 45
get_decode_response() (owtf.http.transaction.HTTPTransaction
                      method), 15
get_dir_worker_logs() (in module owtf.utils.file), 38
get_elapsed_time() (owtf.utils.timer.Timer method), 45
get_elapsed_time_as_str() (owtf.utils.timer.Timer
                           method), 45
get_end_date_time() (owtf.utils.timer.Timer method), 45
get_end_date_time_as_str() (owtf.utils.timer.Timer
                           method), 46
get_error() (in module owtf.managers.error), 25
get_file_as_list() (in module owtf.utils.file), 38
get_groups_for_plugins() (in      module
                           owtf.managers.plugin), 28
get_header_list() (in module owtf.utils.strings), 42
get_html_link() (owtf.http.transaction.HTTPTransaction
                  method), 15
get_html_link_time() (owtf.http.transaction.HTTPTransaction
                      method), 15
get_id()              (owtf.http.transaction.HTTPTransaction
                      method), 15
get_ip_from_hostname() (in module owtf.utils.ip), 40
get_ips_from_hostname() (in module owtf.utils.ip), 40

```

get_log_path() (in module owtf.utils.file), 38
get_logs_dir() (in module owtf.utils.file), 38
get_mapping_category() (in module owtf.managers.mapping), 26
get_mapping_types() (in module owtf.managers.mapping), 26
get_mappings() (in module owtf.managers.mapping), 26
get_option_from_user() (in module owtf.utils.error), 36
get_output_dir() (in module owtf.utils.file), 38
get_output_dir_target() (in module owtf.utils.file), 39
get_plugins_by_group() (in module owtf.managers.plugin), 28
get_plugins_by_group_type() (in module owtf.managers.plugin), 28
get_plugins_by_type() (in module owtf.managers.plugin), 28
get_random_str() (in module owtf.utils.strings), 43
get_raw() (owtf.http.transaction.HTTPTransaction method), 15
get_raw_escaped() (owtf.http.transaction.HTTPTransaction method), 16
get_raw_request() (owtf.http.transaction.HTTPTransaction method), 16
get_raw_response() (owtf.http.transaction.HTTPTransaction method), 16
get_raw_response_body() (owtf.http.transaction.HTTPTransaction method), 16
get_raw_response_headers() (owtf.http.transaction.HTTPTransaction method), 16
get_replacement_dict() (in module owtf.managers.config), 23
get_response_headers() (owtf.http.transaction.HTTPTransaction method), 16
get_sections_config() (in module owtf.managers.config), 23
get_sentry_client() (in module owtf.utils.error), 37
get_session_tokens() (owtf.http.transaction.HTTPTransaction method), 16
get_start_date_time() (owtf.utils.timer.Timer method), 46
get_start_date_time_as_str() (owtf.utils.timer.Timer method), 46
get_status() (owtf.http.transaction.HTTPTransaction method), 16
get_target_dir() (in module owtf.utils.file), 39
get_tcp_ports() (in module owtf.managers.config), 23
get_test_group() (in module owtf.managers.plugin), 28
get_test_groups_config() (in module owtf.managers.plugin), 28
get_time_as_str() (owtf.utils.timer.Timer method), 46
get_time_human() (owtf.utils.timer.Timer method), 46
get_types_for_plugin_group() (in module owtf.managers.plugin), 29

get_udp_ports() (in module owtf.managers.config), 23
github_issue_url (owtf.db.models.Error attribute), 10
grep_outputs (owtf.db.models.Transaction attribute), 13
GrepOutput (class in owtf.db.models), 11
group (owtf.db.models.Plugin attribute), 11
group (owtf.db.models.TestGroup attribute), 13

H

HealthCheckHandler (class in owtf.api.handlers.health), 7
hint (owtf.db.models.TestGroup attribute), 13
host_ip (owtf.db.models.Target attribute), 12
host_name (owtf.db.models.Target attribute), 12
host_path (owtf.db.models.Target attribute), 12
hostname_is_ip() (in module owtf.utils.ip), 40
HTTPTransaction (class in owtf.http.transaction), 15

I

id (owtf.db.models.Error attribute), 10
id (owtf.db.models.GrepOutput attribute), 11
id (owtf.db.models.PluginOutput attribute), 11
id (owtf.db.models.Resource attribute), 12
id (owtf.db.models.Session attribute), 12
id (owtf.db.models.Target attribute), 12
id (owtf.db.models.Transaction attribute), 13
id (owtf.db.models.Work attribute), 14
import_proxy_req_resp() (owtf.http.transaction.HTTPTransaction method), 16
in_scope() (owtf.http.transaction.HTTPTransaction method), 17
IndexHandler (class in owtf.api.handlers.index), 8
info_fmt (owtf.utils.formatters.ConsoleFormatter attribute), 39
init_data() (owtf.http.transaction.HTTPTransaction method), 17
initialize() (owtf.api.handlers.base.APIRequestHandler method), 6
InvalidActionReference, 19
InvalidConfigurationReference, 20
InvalidErrorReference, 20
InvalidMappingReference, 20
InvalidMessageReference, 20
InvalidParameterType, 20
InvalidSessionReference, 20
InvalidTargetException, 20
InvalidTransactionReference, 20
InvalidUrlReference, 20
InvalidWorkerReference, 20
InvalidWorkReference, 20
ip_url (owtf.db.models.Target attribute), 12
is_convertable() (in module owtf.utils.strings), 43
is_handler_subclass() (in module owtf.utils.http), 40
is_internal_ip() (in module owtf.utils.ip), 41
is_method() (in module owtf.utils.http), 40

is_tor_running() (owtf.proxy.tor_manager.TOR_manager static method), 34
iteritems() (in module owtf.utils.pycompat), 42
iterkeys() (in module owtf.utils.pycompat), 42
iterlists() (in module owtf.utils.pycompat), 42
itervalues() (in module owtf.utils.pycompat), 42

K

key (owtf.db.models.ConfigSetting attribute), 10
key (owtf.db.models.Plugin attribute), 11

L

list_to_dict_keys() (in module owtf.utils.strings), 43
load() (owtf.proxy.cache_handler.CacheHandler method), 32
load_config_file() (in module owtf.managers.config), 23
load_framework_config() (in module owtf.managers.config), 24
load_general_config() (in module owtf.managers.config), 24
load_mappings() (in module owtf.managers.mapping), 26
load_plugins() (in module owtf.managers.plugin), 29
load_test_groups() (in module owtf.managers.plugin), 29
local_timestamp (owtf.db.models.Transaction attribute), 13
locked() (owtf.lib.filelock.FileLock method), 21
log_and_exit_handler() (in module owtf.utils.error), 37
login (owtf.db.models.Transaction attribute), 13
logout (owtf.db.models.Transaction attribute), 13

M

make_dirs() (owtf.utils.file.FileOperations static method), 37
Mapping (class in owtf.db.models), 11
mappings (owtf.db.models.Mapping attribute), 11
match() (owtf.api.utils.VersionMatches method), 9
max_owtf_rank (owtf.db.models.Target attribute), 12
max_time (owtf.db.models.Plugin attribute), 11
max_user_rank (owtf.db.models.Target attribute), 12
merge_dicts() (in module owtf.utils.strings), 43
method (owtf.db.models.Transaction attribute), 13
min_time (owtf.db.models.Plugin attribute), 11
mkdir() (owtf.utils.file.FileOperations static method), 37
modified_command (owtf.db.models.Command attribute), 10
msg_configure_tor() (owtf.proxy.tor_manager.TOR_manager static method), 34
msg_start_tor() (owtf.proxy.tor_manager.TOR_manager static method), 34
multi_replace() (in module owtf.utils.strings), 43
multi_replace_dict() (in module owtf.utils.strings), 43

N

name (owtf.db.models.GrepOutput attribute), 11

name (owtf.db.models.Plugin attribute), 11
name (owtf.db.models.Session attribute), 12

O

open() (owtf.utils.file.FileOperations static method), 37
open_connection() (owtf.proxy.tor_manager.TOR_manager method), 34
original_command (owtf.db.models.Command attribute), 10
output (owtf.db.models.GrepOutput attribute), 11
output (owtf.db.models.PluginOutput attribute), 11
output_path (owtf.db.models.PluginOutput attribute), 11
outputs (owtf.db.models.Plugin attribute), 11
owtf (module), 47
owtf.api (module), 9
owtf.api.handlers (module), 9
owtf.api.handlers.base (module), 5
owtf.api.handlers.config (module), 6
owtf.api.handlers.health (module), 7
owtf.api.handlers.index (module), 8
owtf.api.utils (module), 9
owtf.cli (module), 10
owtf.config (module), 47
owtf.constants (module), 47
owtf.db (module), 14
owtf.db.models (module), 10
owtf.filesrv (module), 15
owtf.filesrv.handlers (module), 14
owtf.filesrv.routes (module), 15
owtf.http (module), 19
owtf.http.transaction (module), 15
owtf.lib (module), 22
owtf.lib.cli_options (module), 19
owtf.lib.exceptions (module), 19
owtf.lib.filelock (module), 21
owtf.managers (module), 31
owtf.managers.config (module), 22
owtf.managers.error (module), 24
owtf.managers.mapping (module), 26
owtf.managers.plugin (module), 27
owtf.plugin (module), 31
owtf.protocols (module), 32
owtf.protocols.smtp (module), 31
owtf.proxy (module), 35
owtf.proxy.cache_handler (module), 32
owtf.proxy.gen_cert (module), 33
owtf.proxy.socket_wrapper (module), 33
owtf.proxy.tor_manager (module), 34
owtf.settings (module), 47
owtf.shell (module), 36
owtf.shell.async_subprocess (module), 35
owtf.utils (module), 47
owtf.utils.commands (module), 36
owtf.utils.error (module), 36

owtf.utils.file (module), 37
 owtf.utils.formatters (module), 39
 owtf.utils.http (module), 39
 owtf.utils.ip (module), 40
 owtf.utils.logger (module), 41
 owtf.utils.process (module), 41
 owtf.utils.pycompat (module), 42
 owtf.utils.signals (module), 42
 owtf.utils.strings (module), 42
 owtf.utils.timer (module), 45
 owtf_code (owtf.db.models.Mapping attribute), 11
 owtf_message (owtf.db.models.Error attribute), 10
 owtf_rank (owtf.db.models.PluginOutput attribute), 12
 OWTFLogger (class in owtf.utils.logger), 41

P

pad_key() (in module owtf.utils.strings), 43
 parse_options() (in module owtf.lib.cli_options), 19
 patch() (owtf.api.handlers.config.ConfigurationHandler method), 7
 paths_exist() (in module owtf.utils.strings), 44
 Plugin (class in owtf.db.models), 11
 plugin_code (owtf.db.models.PluginOutput attribute), 12
 plugin_gen_query() (in module owtf.managers.plugin), 29
 plugin_group (owtf.db.models.PluginOutput attribute), 12
 plugin_key (owtf.db.models.Command attribute), 10
 plugin_key (owtf.db.models.PluginOutput attribute), 12
 plugin_key (owtf.db.models.Work attribute), 14
 plugin_name_to_code() (in module owtf.managers.plugin), 29
 plugin_type (owtf.db.models.PluginOutput attribute), 12

PluginAbortException, 20
 PluginException, 20
 PluginOutput (class in owtf.db.models), 11
 plugins (owtf.db.models.TestGroup attribute), 13
 PluginsAlreadyLoaded, 20
 PluginsDirectoryDoesNotExist, 20
 port_number (owtf.db.models.Target attribute), 12
 poutputs (owtf.db.models.Target attribute), 12
 priority (owtf.db.models.TestGroup attribute), 13
 purge() (owtf.lib.filelock.FileLock method), 22

R

raw_request (owtf.db.models.Transaction attribute), 13
 recv() (owtf.shell.async_subprocess.AsyncPopen method), 35
 recv_err() (owtf.shell.async_subprocess.AsyncPopen method), 35
 recv_some() (in module owtf.shell.async_subprocess), 35
 release() (owtf.lib.filelock.FileLock method), 22
 remove_blanks_list() (in module owtf.utils.strings), 44

renew_ip() (owtf.proxy.tor_manager.TOR_manager method), 34
 reported (owtf.db.models.Error attribute), 10
 request_from_cache() (in module owtf.proxy.cache_handler), 33
 Resource (class in owtf.db.models), 12
 resource (owtf.db.models.Resource attribute), 12
 resource_name (owtf.db.models.Resource attribute), 12
 resource_type (owtf.db.models.Resource attribute), 12
 response_body (owtf.db.models.Transaction attribute), 13
 response_from_cache() (in module owtf.proxy.cache_handler), 33
 response_headers (owtf.db.models.Transaction attribute), 13
 response_size (owtf.db.models.Transaction attribute), 13
 response_status (owtf.db.models.Transaction attribute), 13
 reverse_url() (owtf.api.handlers.base.UIRequestHandler method), 6
 rm_tree() (owtf.utils.file.FileOperations static method), 37
 run() (owtf.proxy.tor_manager.TOR_manager method), 35
 run_time (owtf.db.models.Command attribute), 10
 run_time (owtf.db.models.PluginOutput attribute), 12

S

scope (owtf.db.models.Target attribute), 13
 scope (owtf.db.models.Transaction attribute), 13
 scope (owtf.db.models.Url attribute), 14
 scope_str() (owtf.http.transaction.HTTPTransaction method), 17
 scrub_output() (in module owtf.utils.strings), 44
 section (owtf.db.models.ConfigSetting attribute), 10
 send() (owtf.shell.async_subprocess.AsyncPopen method), 35
 send_all() (in module owtf.shell.async_subprocess), 35
 send_recv() (owtf.shell.async_subprocess.AsyncPopen method), 35
 SentryProxy (class in owtf.utils.error), 37
 Session (class in owtf.db.models), 12
 session_tokens (owtf.db.models.Transaction attribute), 13
 set_default_headers() (owtf.filesrv.handlers.StaticFileHandler method), 14
 set_error() (owtf.http.transaction.HTTPTransaction method), 17
 set_id() (owtf.http.transaction.HTTPTransaction method), 17
 set_transaction() (owtf.http.transaction.HTTPTransaction method), 17
 set_transaction_from_db() (owtf.http.transaction.HTTPTransaction method), 18
 setup_signal_handlers() (in module owtf.utils.error), 37

start() (owtf.http.transaction.HTTPTransaction method), 18
start_request() (owtf.http.transaction.HTTPTransaction method), 18
start_time (owtf.db.models.Command attribute), 10
start_time (owtf.db.models.PluginOutput attribute), 12
start_timer() (owtf.utils.timer.Timer method), 46
StaticFileHandler (class in owtf.filesrv.handlers), 14
status (owtf.db.models.PluginOutput attribute), 12
str2bool() (in module owtf.utils.strings), 44
str_to_dict() (in module owtf.utils.strings), 44
strip_key() (in module owtf.utils.strings), 44
success (owtf.db.models.Command attribute), 10
success() (owtf.api.handlers.base.APIRequestHandler method), 6
SUPPORTED_METHODS
 (owtf.api.handlers.base.FileRedirectHandler attribute), 6
SUPPORTED_METHODS
 (owtf.api.handlers.config.ConfigurationHandler attribute), 6
SUPPORTED_METHODS
 (owtf.api.handlers.health.HealthCheckHandler attribute), 7
SUPPORTED_METHODS
 (owtf.api.handlers.index.IndexHandler attribute), 8

T

Target (class in owtf.db.models), 12
target_id (owtf.db.models.Command attribute), 10
target_id (owtf.db.models.GrepOutput attribute), 11
target_id (owtf.db.models.PluginOutput attribute), 12
target_id (owtf.db.models.Transaction attribute), 13
target_id (owtf.db.models.Url attribute), 14
target_id (owtf.db.models.Work attribute), 14
target_url (owtf.db.models.Target attribute), 13
targets (owtf.db.models.Session attribute), 12
TestGroup (class in owtf.db.models), 13
time (owtf.db.models.Transaction attribute), 13
time_human (owtf.db.models.Transaction attribute), 13
Timer (class in owtf.utils.timer), 45
timers (owtf.utils.timer.Timer attribute), 46
title (owtf.db.models.Plugin attribute), 11
top_domain (owtf.db.models.Target attribute), 13
top_url (owtf.db.models.Target attribute), 13
tor_control_process() (owtf.proxy.tor_manager.TOR_manager method), 35
TOR_manager (class in owtf.proxy.tor_manager), 34
traceback (owtf.db.models.Error attribute), 11
Transaction (class in owtf.db.models), 13
transactions (owtf.db.models.Target attribute), 13
truncate_lines() (in module owtf.utils.strings), 44
type (owtf.db.models.Plugin attribute), 11

U

u() (in module owtf.utils.pycompat), 42
UIRequestHandler (class in owtf.api.handlers.base), 6
UnreachableTargetException, 20
UnresolvableTargetException, 20
update_config_val() (in module owtf.managers.config), 24
update_error() (in module owtf.managers.error), 25
Url (class in owtf.db.models), 14
url (owtf.db.models.TestGroup attribute), 13
url (owtf.db.models.Transaction attribute), 14
url (owtf.db.models.Url attribute), 14
url_scheme (owtf.db.models.Target attribute), 13
urls (owtf.db.models.Target attribute), 13
usage() (in module owtf.lib.cli_options), 19
user_abort() (in module owtf.utils.error), 36
user_message (owtf.db.models.Error attribute), 11
user_notes (owtf.db.models.PluginOutput attribute), 12
user_rank (owtf.db.models.PluginOutput attribute), 12

V

value (owtf.db.models.ConfigSetting attribute), 10
VersionMatches (class in owtf.api.utils), 9
visited (owtf.db.models.Url attribute), 14

W

warn_fmt (owtf.utils.formatters.ConsoleFormatter attribute), 39
wipe_bad_chars() (in module owtf.utils.strings), 45
Work (class in owtf.db.models), 14
works (owtf.db.models.Plugin attribute), 11
works (owtf.db.models.Target attribute), 13
wrap_socket() (in module owtf.proxy.socket_wrapper), 33
write() (owtf.api.handlers.base.APIRequestHandler method), 6
write_error() (owtf.api.handlers.base.APIRequestHandler method), 6