
gen_vhost Documentation

Release

https://github.com/vroncevic/gen_vhost/releases

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gen_vhost is toolset for generation virtual host configuration file.

Developed in `python` code: **100%**.

The README is used to introduce the modules and provide instructions on how to install the modules, any machine dependencies it may have and any other information that should be provided before the modules are installed.

1.1 gen_vhost package

1.1.1 Subpackages

1.1.1.1 gen_vhost.pro package

Submodules

gen_vhost.pro.read_template module

Module read_template.py

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Info Defined class ReadTemplate with attribute(s) and method(s). Created API for read a template file and return a content.

class gen_vhost.pro.read_template.**ReadTemplate** (*verbose=False*)

Bases: `ats_utilities.config_io.base_check.FileChecking`

Defined class ReadTemplate with attribute(s) and method(s). Created API for read a template file and return a content. It defines:

attributes

GEN_VERBOSE - console text indicator for process-phase.

TEMPLATE_DIR - template dir path.

__template_dir - absolute file path of template dir.

methods

__init__ - initial constructor.

get_template_dir - getter for template directory object.

read - read a template and return a string representation.

__str__ - dunder method for ReadTemplate.

GEN_VERBOSE = 'GEN_VHOST::PRO::READ_TEMPLATE'

TEMPLATE_DIR = '/../conf/template/'

VERBOSE = 'ATS_UTILITIES'

get_template_dir()

Getter for template directory.

Returns template directory path | None.

Return type <str> | <NoneType>

read(template_module, verbose=False)

Read template structure.

Parameters

- **template_module** (<str>) – template module name.
- **verbose** (<bool>) – enable/disable verbose option.

Returns template content for setup module | None.

Return type <str> | <NoneType>

Exceptions ATSTypeError | ATSBadCallError

gen_vhost.pro.write_template module

Module write_template.py

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Info Defined class WriteTemplate with attribute(s) and method(s). Created API for writing a template content with parameters.

class gen_vhost.pro.write_template.**WriteTemplate** (verbose=False)

Bases: ats_utilities.config_io.base_check.FileChecking

Defined class WriteTemplate with attribute(s) and method(s). Created API for writing a template content with parameters. It defines:

attributes

GEN_VERBOSE - console text indicator for process-phase.

MOD - module key for template.

MODLC - module key lower case for template.

DATE - date key for template.
YEAR - year key for template.
PORTS - ports key for template.
SERVER - server key for template.
ROOT_DOC - root doc key for template.
ADMIN_EMAIL - administrator email key for template.
TARGET_DIR - target directory key for template.
URL - url key for template.

methods

`__init__` - initial constructor.
`write` - write a template content with parameters.
`__str__` - dunder method for WriteTemplate.

```
ADMIN_EMAIL = 'admin_email'
DATE = 'date'
GEN_VERBOSE = 'GEN_VHOST::PRO::WRITE_TEMPLATE'
MOD = 'mod'
MODLC = 'modlc'
PORTS = 'ports'
ROOT_DOC = 'root_doc'
SERVER = 'server_name'
TARGET_DIR = 'target_dir'
URL = 'url'
VERBOSE = 'ATS_UTILITIES'
YEAR = 'year'

write(module_content, module_name, module_file, verbose=False)
    Write a template content with parameters to a file.
```

Parameters

- **module_content** (<str>) – template content.
- **module_name** (<str>) – file name.

Returns boolean status, True (success) | False.

Return type <bool>

Exception ATSBadCallError | ATSTypeError

Module contents

Module `__init__.py`

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Public License for more details. You should have received a copy of the GNU General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Info Defined class VHost with attribute(s) and method(s). Generate virtual host configuration module by template and parameters.

class gen_vhost.pro.VHost (*verbose=False*)

Bases: ats_utilities.config_io.base_check.FileChecking

Defined class VHost with attribute(s) and method(s). Generate virtual host configuration module by template and parameters. It defines:

attributes

GEN_VERBOSE - console text indicator for process-phase.

PRO_STRUCTURE - project setup (template, module).

__reader - reader API.

__writer - writer API.

__config - project setup in dict format.

methods

__init__ - initial constructor.

get_reader - getter for template reader.

get_writer - getter for template writer.

gen_vh_module - generate virtual host file.

select_pro_type - select project type.

__str__ - dunder method for VHost.

GEN_VERBOSE = 'GEN_VHOST::PRO::VHOST'

PRO_STRUCTURE = '/../conf/project.yaml'

VERBOSE = 'ATS_UTILITIES'

gen_vh_module (*module_name, verbose=False*)

Generate setup.py for module package.

Parameters

- **module_name** (<str>) – parameter package name.
- **verbose** (<bool>) – enable/disable verbose option.

Returns boolean status, True (success) | False.

Return type <bool>

Exceptions ATSTypeError | ATSBadCallError

get_reader ()

Getter for template reader.

Returns template reader object.

Return type <ReadTemplate>

Exceptions None

get_writer ()

Getter for template writer.

Returns template writer object.

Return type <WriteTemplate>

Exceptions None

select_pro_type (*verbose=False*)

Select project type.

Parameters **verbose** (<bool>) – enable/disable verbose option.

Returns template type | None.

Return type <str> | <NoneType>

Exceptions None

1.1.2 Module contents

Module __init__.py

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Info Defined class GenVHost with attribute(s) and method(s). Load a base info, create an CLI interface and run operation(s).

class gen_vhost.GenVHost (*verbose=False*)

Bases: `ats_utilities.cli.cfg_cli.CfgCLI`

Defined class GenVHost with attribute(s) and method(s). Load a base info, create an CLI interface and run operation(s). It defines:

attributes

__metaclass__ - setting cooperative metaclasses.

GEN_VERBOSE - console text indicator for process-phase.

CONFIG - configuration file path.

LOG - tool log file path.

OPS - list of tool options.

logger - logger object API.

methods

__init__ - initial constructor.

process - process and run tool option(s).

__str__ - dunder method for GenVHost.

CONFIG = `'/conf/gen_vhost.cfg'`

GEN_VERBOSE = `'GEN_VHOST'`

LOG = `'/log/gen_vhost.log'`

OPS = `['-g', '--gen', '-v', '--verbose', '--version']`

VERBOSE = `'ATS_UTILITIES'`

process (*verbose=False*)

Process and run operation.

Parameters **verbose** (*<bool>*) – enable/disable verbose option.

Returns boolean status, True (success) | False.

Return type *<bool>*

Exceptions None

CHAPTER 2

Installation

Navigate to release [page](#) download and extract release archive.

To install this set of modules type the following:

```
tar xvzf gen_vhost-x.y.z.tar.gz
cd gen_vhost-x.y.z
#python2
pip install -r requirements.txt
python setup.py install_lib
python setup.py install_egg_info
python setup.py install_data
#python3
pip3 install -r requirements.txt
python3 setup.py install_lib
python3 setup.py install_egg_info
python3 setup.py install_data
```

You can use Docker to create image/container, or You can use pip to install:

```
#python2
pip install gen_vhost
#python3
pip3 install gen_vhost
```


CHAPTER 3

Dependencies

gen_vhost requires next modules and libraries:

- [ats-utilities](#) - Python App/Tool/Script Utilities

CHAPTER 4

Tool structure

gen_vhost is based on OOP:

Code structure:

```
gen_vhost/
├── conf/
│   ├── gen_vhost.cfg
│   ├── gen_vhost_util.cfg
│   ├── project.yaml
│   └── template/
│       ├── vhost_perl.template
│       ├── vhost_php.template
│       ├── vhost_python.template
│       ├── vhost_ruby.template
│       └── vhost_static.template
├── __init__.py
├── log/
│   └── gen_vhost.log
├── pro/
│   ├── __init__.py
│   ├── read_template.py
│   └── write_template.py
└── run/
    └── gen_vhost_run.py
```


CHAPTER 5

Copyright and licence

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gen_vhost is free software; you can redistribute it and/or modify it under the same terms as Python itself, either Python version 2.x/3.x or, at your option, any later version of Python 3 you may have available.

Lets help and support PSF.



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