
transip-api Documentation

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Go About B.V.

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This library aims to implement the [TransIP SOAP V5 API](#) in Python. The SOAP V5 API is marked as **deprecated** by TransIP, users are strongly advised to switch to the new [TransIP REST API V6](#).

If you would like to use the new [TransIP REST API V6](#), please consider using [python-transip](#) instead.

Here is an example of a simple Python program:

```
from transip.service.vps import VpsService

PRIVATE_KEY = '''
-----BEGIN PRIVATE KEY-----
...
-----END PRIVATE KEY-----
'''

# You can specify the private key directly or supply the path to the private
# key file. The private_key_file will default to `decrypted_key`.
client = VpsService('accountname', private_key_file='/path/to/decrypted_key')
client = VpsService('accountname', private_key=PRIVATE_KEY)

# Order a Vps without addons:
client.order_vps('vps-bladevps-x1', None, 'ubuntu-18.04', 'vps-name')
```

You can get the library directly from PyPi:

```
pip install transip
```


This part of the documentation guides you through all of the library's usage patterns.

1.1 Quickstart

You can get the library directly from PyPI:

```
pip install transip-api
```

The installation into a *virtualenv* is heavily recommended.

1.1.1 virtualenv

Virtualenv is probably what you want to use for developing Python applications. Simply fire up a shell and create your own isolated Python environment in the *venv* folder:

```
$ mkdir myproject
$ cd myproject
$ python -m venv venv
```

Now, whenever you want to work on a project, you only have to activate the corresponding environment. On Mac OS X and Linux, do the following:

```
$ . venv/bin/activate
```

If you are on Windows, use the following command:

```
$ venv\scripts\activate
```

Either way, you should now be using your virtualenv (notice how the prompt of your shell has changed to show the active environment).

And if you want to exit your virtualenv, use the following command:

```
$ deactivate
```

Enter the following command to get transip-api installed in your virtualenv:

```
$ pip install transip
```

A few seconds later and you are good to go.

1.2 Command-line interpreter

The transip-api includes a command-line interpreter (CLI) that doesn't do much yet. By default it does a *getDomainNames()* call, but with the *-u* option it's also possible to add or update DNS records. When calling it with the *-h*, it will show all available options.

```
$ transip-api
[example.com, example.org, example.net]

$ transip-api -h
usage: transip-api [-h] [-l LOGINNAME] [-s] [-a] [-u] [-d]
                  [--domain-name DOMAIN_NAME] [--entry-name ENTRY_NAME]
                  [--entry-expire ENTRY_EXPIRE] [--entry-type ENTRY_TYPE]
                  [--entry-content ENTRY_CONTENT] [--api-key PRIVATE_KEY_FILE]

optional arguments:
  -h, --help            show this help message and exit
  -l LOGINNAME, --login-name LOGINNAME
                        TransIP username
  -s, --show-dns-entries
                        show all DNS entries for a domain
  -a, --add-dns-entry    add an entry in the DNS
  -u, --update-dns-entry
                        update an entry in the DNS
  -d, --delete-dns-entry
                        delete an entry in the DNS
  --domain-name DOMAIN_NAME
                        domain name to use
  --entry-name ENTRY_NAME
                        name of the DNS entry
  --entry-expire ENTRY_EXPIRE
                        expire time of the DNS entry
  --entry-type ENTRY_TYPE
                        type of the DNS entry
  --entry-content ENTRY_CONTENT
                        content of the DNS entry
  --api-key PRIVATE_KEY_FILE
                        TransIP private key
```

Example of adding/updating a record:

```
$ transip-api -l githubuser -u --api-key privatekey --domain-name example.com --entry-
↪name testentry --entry-expire 86400 --entry-type A --entry-content 127.0.0.1
Request finished successfully.
```


1.3 API

This part of the documentation lists the full API reference of all public classes and functions.

1.3.1 Client

```
class transip.client.Client (service_name, login, private_key=None, private_key_file='decrypted_key', endpoint='api.transip.nl')
```

A client-base class, for other classes to base their service implementation on. Contains methods to set and sign cookie and to retrieve the correct WSDL for specific parts of the TransIP API.

Note: You either need to supply a `private_key` or a `private_key_file`.

Args: `service_name` (str): Name of the service. `login` (str): The TransIP username. `private_key` (str, optional): The content of the private key for accessing the TransIP API.

private_key_file (str, optional): Path to the private key for accessing the TransIP API. Defaults to 'decrypted_key'.

`endpoint` (str): The TransIP API endpoint. Defaults to 'api.transip.nl'.

build_cookie (*method*, *mode*, *parameters=None*)

Build a cookie for the request.

Keyword arguments: `method` – the method to be called on the service. `mode` – Read-only (MODE_RO) or read-write (MODE_RW)

update_cookie (*cookies*)

Updates the cookie for the upcoming call to the API.

1.3.2 Services

```
class transip.service.domain.DomainService (*args, **kwargs)
```

Representation of the DomainService API calls for TransIP

add_dns_entries (*domain_name*, *dns_entries*)

Adds the given DnsEntries to the domain. :type `domain_name`: str :type `dns_entries`: list of transip.service.objects.DnsEntry

batch_check_availability (*domain_names*)

Transip_DomainService::batchCheckAvailability Allows only 20 domain names per request :type `domain_names`: list of str :rtype: list of transip.service.objects.DomainCheckResult

batch_get_info (*domain_names*)

Transip_DomainService::batchGetInfo :type `domain_names`: list of str :rtype: list of transip.service.objects.Domain

cancel (*domain_name*, *end_time*)

Transip_DomainService::batchGetInfo :type `domain_name`: str :type `end_time`: datetime.datetime

cancel_domain_action (*domain*)

Transip_DomainService::cancelDomainAction :type `domain`: transip.service.objects.Domain

check_availability (*domain_name*)

Transip_DomainService::checkAvailability :type `domain_name`: str :rtype: str the availability status of the domain name

get_all_tld_infos ()
Transip_DomainService::batchGetInfo :rtype: list of transip.service.objects.Tld

get_auth_code (*domain_name*)
Transip_DomainService::getAuthCode :type domain_name: str :rtype: str

get_current_domain_action (*domain_name*)
Transip_DomainService::getCurrentDomainAction :type domain_name: str :rtype: transip.service.objects.DomainAction

get_domain_names ()
Transip_DomainService::getDomainNames :rtype: list of str

get_info (*domain_name*)
Retrieves information about the requested domain-name. :param domain_name: str :rtype: transip.service.objects.Domain

get_is_locked (*domain_name*)
Transip_DomainService::getIsLocked (@deprecated use getInfo) :type domain_name: str :rtype: bool

get_tld_info (*tld_name*)
Transip_DomainService::getTldInfo :type tld_name: str :rtype: transip.service.objects.Tld

get_whois (*domain_name*)
Transip_DomainService::getWhois :type domain_name: str :rtype: str

register (*domain*)

remove_dns_entries (*domain_name*, *dns_entries*)
Removes the given DnsEntries from the domain. :type domain_name: str :type dns_entries: list of transip.service.objects.DnsEntry to remove, cannot be empty

retry_current_domain_action_with_new_data (*domain*)
Transip_DomainService::retryCurrentDomainActionWithNewData :type domain: transip.service.objects.Domain

retry_transfer_with_different_auth_code (*domain*, *new_auth_code*)
Transip_DomainService::retryTransferWithDifferentAuthCode :param domain: transip.service.objects.Domain :type new_auth_code: str

set_contacts (*domain_name*, *contacts*)
Transip_DomainService::setContacts :type domain_name: str :type contacts: list of transip.service.objects.WhoisContact

set_dns_entries (*domain_name*, *dns_entries*)
Sets the DnEntries for this Domain, will replace ALL existing dns entries with the new entries :type domain_name: str :type dns_entries: list of transip.service.objects.DnsEntry

set_lock (*domain_name*)
Transip_DomainService::batchGetInfo :type domain_name: str

set_nameservers (*domain_name*, *nameservers*)
Transip_DomainService::batchGetInfo :type domain_name: str :type nameservers: list of transip.service.objects.Nameserver

set_owner (*domain_name*, *registrant_whois_contact*)
Transip_DomainService::batchGetInfo :type domain_name: str :type registrant_whois_contact: transip.service.objects.WhoisContact

```
transfer_with_owner_change (domain, auth_code)
    Transip_DomainService::transferWithOwnerChange :type domain: transip.service.objects.Domain :type
    auth_code: str

transfer_without_owner_change (domain, auth_code)
    Transip_DomainService::transferWithoutOwnerChange :type domain: transip.service.objects.Domain
    :type auth_code: str

unset_lock (domain_name)
    Transip_DomainService::batchGetInfo

class transip.service.haip.HaipService (*args, **kwargs)
    Representation of the HaipService API calls for TransIP

    change_haip_vps (haip_name, vps_name)
        Changes the VPS connected to the HA-IP

    get_haip (haip_name)
        Get a HA-IP by name

    get_haips ()
        Get all HA-IPs

class transip.service.vps.VpsService (*args, **kwargs)
    Representation of the VpsService API calls for TransIP

    add_ipv6_to_vps (vps_name, ipv6_address)
        Add Ipv6 Address to Vps

    add_vps_to_private_network (vps_name, private_network_name)
        Add VPS to a private Network

    cancel_addon (vps_name, addon_name)
        Cancel a Vps Addon

    cancel_private_network (private_network_name, end_time)
        Cancel a PrivateNetwork

    cancel_vps (vps_name, end_time)
        Cancel a Vps

    clone_vps (vps_name)
        Clone a VPS

    clone_vps_to_availability_zone (vps_name, availability_zone)
        Clone a VPS to a availability zone

    create_snapshot (vps_name, description)
        Create a snapshot

    get_active_addons_for_vps (vps_name)
        Get all the Active Addons for Vps

    get_all_ips ()
        Get All ips

    get_all_private_networks ()
        Get all Private networks in your account

    get_available_addons ()
        Get available VPS addons

    get_available_addons_for_vps (vps_name)
        Get available Addons for Vps
```

get_available_availability_zones ()
Get available availability zones

get_available_products ()
Get available VPS products

get_available_upgrades (*vps_name*)
Get available VPS upgrades for a specific Vps

get_cancellable_addons_for_vps (*vps_name*)
Get cancellable addons for specific Vps

get_ips_for_vps (*vps_name*)
Get Ips for a specific Vps

get_operating_systems ()
Get all operating systems

get_private_networks_by_vps (*vps_name*)
Get Private networks for a specific vps

get_snapshots_by_vps (*vps_name*)
Get all Snapshots for a vps

get_vps (*vps_name*)
Get a Vps by name

get_vps_backups_by_vps (*vps_name*)
Get all VpsBackups for a vps

get_vpses ()
Get all Vpses

handover_vps (*vps_name*, *target_accountname*)
Handover a VPS to another TransIP User

install_operating_system (*vps_name*, *operating_system_name*, *hostname*)
Install an operating system on a vps

install_unattended (*vps_name*, *operating_system_name*, *base64_install_text*)
Install an operating system on a vps with a unattended installfile

order_addon (*vps_name*, *addons*)
Order addons to a VPS

order_private_network ()
Order a private Network

order_vps (*product_name*, *addons*, *operating_system_name*, *hostname*)
Order a VPS with optional Addons

order_vps_in_availability_zone (*product_name*, *addons*, *operating_system_name*, *hostname*, *availability_zone*)
Order a VPS with optional Addons in a availability zone

remove_snapshot (*vps_name*, *snapshot_name*)
Remove a snapshot

remove_vps_from_private_network (*vps_name*, *private_network_name*)
Remove VPS from a private Network

reset (*vps_name*)
Reset a Vps

```
revert_snapshot (vps_name, snapshot_name)  
    Revert a snapshot  
  
revert_snapshot_to_other_vps (sourcevps_name, snapshot_name, destinationvps_name)  
    Revert a snapshot to another VPS  
  
revert_vps_backup (vps_name, backup_id)  
    Revert a vps backup  
  
set_customer_lock (vps_name, enabled)  
    Enable or Disable a Customer Lock for a Vps  
  
start (vps_name)  
    Start a Vps  
  
stop (vps_name)  
    Stop a Vps  
  
upgrade_vps (vps_name, upgrade_name)  
    upgrade a Vps  
  
class transip.service.webhosting.WebhostingService (*args, **kwargs)  
    Transip_WebhostingService  
  
    create_mail_forward (domain, mailforward)  
        Transip_WebhostingService::createMailForward  
  
    create_mailbox (domain, mailbox)  
        Transip_WebhostingService::createMailBox  
  
    delete_mail_forward (domain, mailforward)  
        Transip_WebhostingService::deleteMailForward  
  
    delete_mailbox (domain, mailbox)  
        Transip_WebhostingService::deleteMailBox  
  
    get_available_packages ()  
        Transip_WebhostingService::getAvailablePackages  
  
    get_available_upgrades (domain)  
        Transip_WebhostingService::getAvailableUpgrades  
  
    get_info (domain)  
        Transip_WebhostingService::getInfo  
  
    get_webhosting_domain_names ()  
        Transip_WebhostingService::getWebhostingDomainNames  
  
    set_mailbox_password (domain, mailbox, password)  
        Transip_WebhostingService::setMailBoxPassword  
  
    update_mail_forward (domain, mailforward)  
        Transip_WebhostingService::modifyMailForward  
  
    update_mailbox (domain, mailbox)  
        Transip_WebhostingService::modifyMailBox
```

1.3.3 Objects

```
class transip.service.objects.DnsEntry (name, expire, record_type, content)  
    Representation of a DNS record as expected by the API
```

```
class transip.service.objects.Domain (name)
    Transip_Domain

class transip.service.objects.Nameserver (hostname, ipv4=None, ipv6=None)
    Transip_Nameserver

class transip.service.objects.WhoisContact
    Transip_WhoisContact representation

class transip.service.objects.DomainBranding
    Transip_DomainBranding

class transip.service.objects.WebhostingPackage (name, description, price, renewal-
                                                Price)
    Transip_WebhostingPackage representation

class transip.service.objects.WebHost (domainName)
    Transip_WebHost representation

class transip.service.objects.MailBox (address, maxDiskUsage=20)
    Transip_MailBox representation

class transip.service.objects.MailForward (name, targetAddress)
    Transip_MailForward representation

class transip.service.objects.Tld (name)
    Transip_Tld representation

class transip.service.objects.DomainAction (name, hasFailed, message)
    Transip_DomainAction representation

class transip.service.objects.WhoisContact
    Transip_WhoisContact representation

class transip.service.objects.DomainCheckResult (domainName, status, actions)
    Transip_DomainCheckResult representation
```

2.1 Contribute

This project uses git & python.

2.1.1 Setup

In order to contribute, please start by making your own [fork](#) of this repository, and proceed to clone your own nifty fork to your local machine.

Isolating the Python environment with [virtualenv](#) is recommended. Use the following commands to set up a development environment within the Git workspace:

```
$ virtualenv .  
$ . bin/activate  
(transip-api) $ pip install -r dev_requirements.txt
```

Or by using [virtualenvwrapper](#):

```
$ mkvirtualenv transip-api  
$ cd /path/to/clone  
$ setvirtualenvproject
```

Proceed to using pip to install all the dependencies

```
$ pip install -r dev_requirements.txt
```

2.1.2 Pull-Request

Please make sure that you make a separate branch for the changes you propose. Subsequent commits to the same branch as the Pull-Request originated from will be picked up by GitHub and added to the Pull-Request.

This is quite handy to change things when there are comments about the changeset, but can be annoying if not taken into account. If you make a Pull- Request from your develop branch and you continue developing, all new commits get added to the Pull-Request, which is clearly not wanted.

2.1.3 Testing & Code-quality

This project uses *unittest* to automatically test the software. Every Pull Request should contain tests, unless it is clear why they are not needed. (e.g. document change only, changes that don't change behaviour.)

To ensure consistent code, pylint has been enabled for this project. Included is a *.pylintrc* file, with configuration for this project.

To run tests & pylint you can run these two commands

```
$ nosetests --rednose --with-coverage --cover-package=transip
$ pylint --rcfile=.pylintrc transip
```

Note: pylint configuration is not set in stone. Change the configuration if you feel the need to do so. Please do explain the reason for changing the configuration in the Pull-Request.

Warning: Bugfixes should add a test that fails with the bug unfixed, but passes with the bug fixed.

2.1.4 TravisCI

When a Pull-Request is made, [TravisCI](https://travis-ci.org/mhogerheijde/transip-api) will automatically pick it up and test it using the settings from *.travis.yml*. The results will be made available both on GitHub with the Pull-Request, as on the specific page for this repository at [TravisCI](https://travis-ci.org/mhogerheijde/transip-api): <https://travis-ci.org/mhogerheijde/transip-api>. If anything fails, you can see the specifics about the failure there.

Obviously, Pull-Request that fail the test will not be merged.

2.2 License

Transip-api is licensed under a MIT License.

2.2.1 License Text

MIT License

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