
openvpn-status Documentation

Release 0.1.1

Jiangge Zhang

June 29, 2016

Contents

1 Table Of Contents	3
1.1 User's Guide	3
1.2 API Reference	4
1.3 Changelog	6
1.4 Authors	6
Python Module Index	7

openvpn-status is a Python library. It parses OpenVPN status log and turns it into Python data structure for you.

Table Of Contents

1.1 User's Guide

1.1.1 Installation

```
pip install openvpn-status
```

Don't forget to put it in `setup.py / requirements.txt`.

1.1.2 Getting Started

You could configure your OpenVPN server to log for client status. In usual it could be achieved by adding `status /path/to/openvpn-status.log` line to `/etc/openvpn/openvpn.conf`. For example:

```
proto udp
port 1194
dev tun0
status /var/run/openvpn-status.log
```

Once OpenVPN server running, the log file will be created and written. It looks like:

```
OpenVPN CLIENT LIST
Updated,Thu Jun 18 08:12:15 2015
Common Name,Real Address,Bytes Received,Bytes Sent,Connected Since
foo@example.com,10.10.10.10:49502,334948,1973012,Thu Jun 18 04:23:03 2015
bar@example.com,10.10.10.10:64169,1817262,28981224,Thu Jun 18 04:08:39 2015
ROUTING TABLE
Virtual Address,Common Name,Real Address,Last Ref
192.168.255.134,foo@example.com,10.10.10.10:49502,Thu Jun 18 08:12:09 2015
192.168.255.126,bar@example.com,10.10.10.10:64169,Thu Jun 18 08:11:55 2015
GLOBAL STATS
Max bcast/mcast queue length,0
END
```

Now we could parse log file with this library:

```
from openvpn_status import parse_status

with open('/var/run/openvpn-status.log') as logfile:
    status = parse_status(logfile.read())
```

```
print(status.updated_at) # datetime.datetime(2015, 6, 18, 8, 12, 15)

foo_client = status.client_list['foo@example.com']
print(foo_client.bytes_received) # 334.9 kB
print(foo_client.bytes_sent) # 2.0 MB
```

More detail and API reference are in the [document](#).

1.1.3 Contributing

If you want to report bugs or request features, please feel free to open issues on [GitHub](#).

Of course, pull requests are always welcome.

1.2 API Reference

1.2.1 Models

```
class openvpn_status.models.Status
    The OpenVPN status model.
```

```
    client_list
        (OrderedDict)
```

The list of connected clients. The dictionary items have form of (*client.common_name*, *client*). See also [Client](#).

```
    routing_table
```

Type `OrderedDict`

The list of routing table. The dictionary items have form of (*routing.common_name*, *routing*). See also [Routing](#).

```
    global_stats
```

Type `GlobalStats`

```
    updated_at
```

Type `datetime.datetime`

The last updated time of log file in UTC.

```
class openvpn_status.models.Client
    The OpenVPN client model.
```

```
    common_name
```

Type `str`

The common name of OpenVPN client certificate. (e.g. *foo@example.com*)

```
    real_address
```

Type `PeerAddress`

The real IP address and port of client.

```
    bytes_received
```

```
Type FileSize
bytes_sent

Type FileSize

connected_since

Type datetime.datetime

The time in UTC since last connection established.

class openvpn_status.models.Routing
The OpenVPN routing model.

virtual_address

Type IPv4Address or IPv6Address

common_name
Same as Client.common_name

real_address
Same as Client.real_address

last_ref

Type datetime.datetime

class openvpn_status.models.GlobalStats
The OpenVPN global stats model.

max_bcast_mcast_queue_len

Type int
```

1.2.2 Parser

```
class openvpn_status.parser.LogParser(lines)
The parser for parsing OpenVPN status log.

This kind of parser is stateful. So the LogParser.parse() could be called once in the same instance of parser.

classmethod fromstring (content)
Creates a parser from content of log.

Parameters content (str) – The log content.

Returns The parser instance.

parse()
Parses the status log.

Raises ParsingError if syntax error found in the log.

Returns The models.Status with filled data.

exception openvpn_status.parser.ParsingError
```

1.2.3 Shortcuts

```
openvpn_status.shortcuts.parse_status(status_log, encoding=u'utf-8')  
    Parses the status log of OpenVPN.
```

Parameters

- **status_log** (`str`) – The content of status log.
- **encoding** (`str`) – Optional. The encoding of status log.

Returns The instance of `models.Status`

1.2.4 Utilities

```
class openvpn_status.utils.PeerAddress  
    The address of peer entity.
```

Parameters

- **host** (`IPv4Address` or `IPv6Address`) – The host address of peer entity.
- **port** (`int`) – The port of peer entity.

```
class openvpn_status.utils.FileSize  
    The size of bytes.
```

humanize (**kwargs)

Gets the human-friendly representation of file size.

Parameters `kwargs` – All keyword arguments will be passed to `humanizefilesize.naturalsize()`.

1.3 Changelog

1.3.1 0.1.1 (2016-06-29)

- Fixed GH-3: The depended six must later than 1.9.0 because we used its “python_2_unicode_compatible” decorator.

1.3.2 0.1.0 (2015-06-19)

The first release.

1.4 Authors

- Jiangge Zhang <tonyseek@gmail.com>

0

`openvpn_status.models`,⁴
`openvpn_status.parser`,⁵
`openvpn_status.shortcuts`,⁶
`openvpn_status.utils`,⁶

B

bytes_received (openvpn_status.models.Client attribute),
 4

bytes_sent (openvpn_status.models.Client attribute), 5

C

Client (class in openvpn_status.models), 4

client_list (openvpn_status.models.Status attribute), 4

common_name (openvpn_status.models.Client attribute),
 4

common_name (openvpn_status.models.Routing attribute), 5

connected_since (openvpn_status.models.Client attribute), 5

F

FileSize (class in openvpn_status.utils), 6

fromstring() (openvpn_status.parser.LogParser class
 method), 5

G

global_stats (openvpn_status.models.Status attribute), 4

GlobalStats (class in openvpn_status.models), 5

H

humanize() (openvpn_status.utils.FileSize method), 6

L

last_ref (openvpn_status.models.Routing attribute), 5

LogParser (class in openvpn_status.parser), 5

M

max_bcast_mcast_queue_len
 (openvpn_status.models.GlobalStats attribute),
 5

O

openvpn_status.models (module), 4

openvpn_status.parser (module), 5

openvpn_status.shortcuts (module), 6

openvpn_status.utils (module), 6

P

parse() (openvpn_status.parser.LogParser method), 5

parse_status() (in module openvpn_status.shortcuts), 6

ParsingError, 5

PeerAddress (class in openvpn_status.utils), 6

R

real_address (openvpn_status.models.Client attribute), 4

real_address (openvpn_status.models.Routing attribute),
 5

Routing (class in openvpn_status.models), 5

routing_table (openvpn_status.models.Status attribute), 4

S

Status (class in openvpn_status.models), 4

U

updated_at (openvpn_status.models.Status attribute), 4

V

virtual_address (openvpn_status.models.Routing attribute), 5