python-netbox Documentation

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python-netbox is a client for the Netbox (https://github.com/digitalocean/netbox) API. It's based on the APIv2 which is released since version 2.0.0. It requires python 3.

CHAPTER 1

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1.1 Installation

To get the latest version from Github:

```
pip install python-netbox
```

To install the latest version from the master branch:

```
pip install  pip install https://github.com/jagter/python-netbox/archive/master.zip
```

1.2 Authentication

By default you can get all the information from Netbox if the login_required option is set to False. If the option is set to True, you can access the api by username and password to GET the information. The API is only writable if you have a Token.

- Use the auth_token parameter for the writeable api
- Use the auth parameter to use username and password. The auth parameter is a tuple ('username','password')

1.3 Examples

To start with python-netbox client:

```
>>> from netbox import NetBox
>>> netbox = NetBox(host='127.0.0.1', port=32768, use_ssl=False, auth_token='token')
```

Get all devices:

```
>>> netbox.dcim.get_devices()
```

Get devices per rack:

```
>>> netbox.dcim.get_devices(rack_id=1)
```

Get device by name

```
>>> netbox.dcim.get_devices(name='device_name')
```

Get per device the primary ip and mac address:

```
>>> output = []
>>> for item in a.dcim.get_devices():
>>>     device_name = item['name']
>>>
>>>     if item['primary_ip'] is not None:
>>>         primary_ip_id = item['primary_ip']['id']
>>>         get_ips = a.ipam.get_ip_by_id(primary_ip_id)
>>>
>>>         output.append({'name': device_name, 'ip': get_ips['address'], 'mac': get_
↪ips['interface']['mac_address']})
>>>     else:
>>>          print('{} has no primary_ip'.format(item['name']))
>>>
>>>     print(output)
```

Create a site:

```
>>> netbox.dcim.create_site('site1', 'site1')
```

Delete a site:

```
>>> netbox.dcim.delete_site('site1')
```

CHAPTER 2

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