

Ansible module for Waldur

Waldur-based solutions can be managed with Ansible modules to allow provisioning and management of infrastructure under Waldur through Ansible playbooks.

Supported functionality

- OpenStack management.
- SLURM HPC management
- Common client for Waldur APIs in Python.

See also: <http://docs.ansible.com/ansible/modules.html>

Installation

```
1 pip install ansible-waldur-  
  module
```

Example usage

Configure an Ansible playbook with parameters

```
1   name: Trigger master instance  
2   waldur_marketplace_os_instance:  
3     access_token: "{{  
4 access_token }}"  
5     api_url: "{{ api_url }}"  
6     flavor: m1.micro  
7     floating_ip: auto  
8     image: CentOS 7 x86_64  
9     name: "{{ instance_name }}"  
10    project: "OpenStack Project"  
11    offering: Instance in Tenant  
12    ssh_key: ssh1.pub  
13    subnet: vpc-1-tm-sub-net-2  
14    system_volume_size: 40  
    wait: false
```

Pass parameters to an Ansible playbook

```
1 ANSIBLE_LIBRARY=/usr/share/ansible-waldur/ ansible \  
2   -m waldur_marketplace_os_instance \  
3   -a "api_url=https://waldur.example.com/api/  
4   access_token=9036194e1ac54cada3248a8c6b203bf7 name=instance-name  
   project='Project name' " \  
   localhost
```

Running playbook using virtual Python environment

If you've installed Ansible Waldur module to virtual Python environment you need to specify path to Python interpreter and path to module library along with path to playbook:

```
1 ansible-playbook \  
2   -e ansible_python_interpreter=/home/user/ansible-env/bin/  
3   python \  
4   -M /home/user/ansible-env/lib/python3.8/site-packages/ \  
   playbook.yml
```

Contributing

1. See general guidelines: https://docs.ansible.com/ansible/latest/dev_guide/developing_modules_general.html
2. Install `pre-commit` and `tox`

```
1 pip install tox pre-  
2   commit  
   pre-commit install
```

1. When new module is implemented, don't forget to update `py_modules` section in `setup.py` file.
2. When new module is implemented, it should be covered with tests. Run tests using `tox`

```
1 t
```

1. Module name should consist of three parts separated by underscore: `waldur`, plugin name, entity name. For example, `waldur_os_snapshot` refers to OpenStack (OS) as plugin name and snapshot as entity name.