



OpenStack@LAL Client install

v0.3

Oleg Lodygensky, CNRS – LAL

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Orsay



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Complete Dynamic Multi-cloud Application Management

Some services available on web site (Horizon, MarketPlace, Registration).

But most is done using a command line client to use an OpenStack cloud:

- Requirements
- Installation
- Configuration
- Validation

<https://cloud.lal.stratuslab.eu/register/>

Requirements

- Python 2.6+
- Python pip
- Ssh client
- Recent Web browser
- virtualenv

Installation

- **Virtualenv :**

```
$ pip install virtualenv
```

- **OpenStack :**

```
$ mkdir openstack
```

```
$ cd openstack
```

```
$ virtualenv .
```

```
$ source ./bin/activate
```

```
$ pip install python-keystoneclient python-novaclient python-neutronclient python-glanceclient python-cinderclient netifaces
```

Configuration

You must create your config file : **keystone_rc**

```
unset OS_SERVICE_TOKEN
export OS_USERNAME=**Your Login**
export OS_PASSWORD=**Your Password**
#export PS1='[\u@\h \W($OS_USERNAME @ OS_LAL)]\$ '
export PS1="[ $OS_USERNAME @ OS_LAL ] $PS1 "
export OS_TENANT_NAME=**Your Project**
export OS_PROJECT_NAME=**Your Project**
export OS_AUTH_URL=https://keystone.lal.in2p3.fr:5000/v3
export OS_IDENTITY_API_VERSION=3
#export OS_CACERT=$HOME/.certs/terena.pem
export OS_USER_DOMAIN_NAME=stratuslab
export OS_PROJECT_DOMAIN_NAME=stratuslab
```

Validation

- Cloud access

```
$ cd openstack
```

```
$ source ./bin/activate
```

```
$ source ~/.keystone/keystone_rc
```

```
$ openstack server list
```

```
$ openstack image list
```

- Help

- All commands accept `--help` and `--version` options
- The `--verbose` command may help debugging