

# Bootstrap cloudify on top of openstack & deploy clearwater via cloudify

## Pre-requisites:

Suppose you have OPNFV Danube installed via Apex installer

## Process:

- Install cloudify CLI 3.3.1

Create a Ubuntu 14.04 VM on openstack for cloudify CLI installation, other distributions may also work (We install cloudify via python-virtualenv)

Install cloudify CLI 3.3.1

```
cd ~  
# install virtualenv  
sudo apt-get update  
sudo apt-get install git python-pip python-dev  
python-virtualenv -y  
virtualenv cloudify  
source cloudify/bin/activate  
  
# install cloudify  
cd cloudify  
pip install cloudify==3.3.1
```

- Bootstrap cloudify manager on top of openstack

Prepare cloudify manager blueprints

```
mkdir -p cloudify-manager  
cd cloudify-manager  
git clone -b 3.3.1-build  
https://github.com/boucherv-orange/cloudify-manager-blueprints.git
```

```
# initialize cfy work environment (initializes CLI
configuration files)
cfy init
cd cloudify-manager-blueprints/
cfy local create-requirements -o requirements.txt -p
openstack-manager-blueprint.yaml
sudo pip install -r requirements.txt
```

## Specific your own openstack information

```
vi openstack-manager-blueprint-inputs.yaml
```

## Bootstrap cloudify manager service

```
# bootstrap manager
cfy bootstrap --install-plugins -p
openstack-manager-blueprint.yaml -i
openstack-manager-blueprint-inputs.yaml
```

- Deploy clearwater via cloudify

### Prepare clearwater blueprints

```
cd ~/cloudify/cloudify-manager/
mkdir blueprints
cd blueprints
git clone -b stable
https://github.com/Orange-OpenSource/opnfv-cloudify-clearwater.git
```

### Upload clearwater blueprints

```
cd opnfv-cloudify-clearwater
cfy blueprints upload -b clearwater-3.3 -p
openstack-blueprint.yaml
```

### Create and launch deployment

The easiest way to create and launch deployment is via cloudify web ui, just fill in proper information needed by deploying and execute install workflow

## Restrictions:

Specified version must be satisfied otherwise the process may won't work

Todo:

dns configuration for cloudify manager, two approaches

Cloudify CLI create and launch deployment

Run clearwater live test