



# QTIP Framework Documentation

*Release draft (cbdddad)*

**OPNFV**

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## INSTALLATION

QTIP currently supports by using a Docker image or by pulling the repo from the upstream repository found at <https://git.opnfv.org/qtip>. Detailed steps about setting up QTIP using both of these options can be found below.

To use QTIP you should have access to an OpenStack environment, with at least Nova, Neutron, Glance, Keystone and Heat installed.

The steps needed to run QTIP are:

### 1.1 Running QTIP by pulling the upstream code

#### 1.1.1 Setting QTIP framework on Ubuntu 14.04

Install dependencies:

```
sudo apt-get install python-dev
sudo apt-get install python-pip
sudo apt-get install build-essential
sudo apt-get install git wget
sudo pip install python-heatclient python-glanceclient python-neutronclient
```

Download source code and install python dependencies:

```
git clone https://git.opnfv.org/qtip
cd qtip
```

### 1.2 Installing QTIP using Docker

QTIP has a Docker images on the docker hub which can be pull after docker has been installed.

#### 1.2.1 Installing Docker

The first step is to install docker:

```
sudo apt-key adv --keyserver hkp://p80.pool.sks-keyservers.net:80 --recv-keys 58118E89F3A912897C070A
```

Add an entry for your Ubuntu operating system

```
Open the /etc/apt/sources.list.d/docker.list file in your favorite editor.
```

If the file doesn't exist, create it.

Remove any existing entries.

Add an entry for your Ubuntu operating system.

On Ubuntu Trusty 14.04 (LTS)

```
deb https://apt.dockerproject.org/repo ubuntu-trusty main
```

Update the package manager

```
sudo apt-get update
```

Install Docker:

```
sudo apt-get install docker-engine
```

Starting Docker Daemon:

```
sudo service docker start
```

Pulling opnfv/qtip docker image from docker hub:

```
sudo docker pull opnfv/qtip
```

Verify that opnfv/qtip has been downloaded. It should be listed as an image by running the following command.

```
sudo docker images
```

Run the Docker instance:

```
docker run opnfv/qtip -i -t bash
```

Now you are in the container and QTIP can be found in the `/repos/qtip` and can be navigated to using the following command.

```
cd repos/qtip
```

## 1.3 OpenStack parameters and credentials

### 1.3.1 Environment variables

Before running QTIP it is necessary to export OpenStack environment variables from the OpenStack `openrc` file. This can be done by running the following command.

```
source get_env_info.sh -n {INSTALLER_TYPE} -i {INSTALLER_IP}
source opnfv-creds.sh
```

This provides a `opnfv-creds.sh` file which can be sources to get the environment variables. For running QTIP manually, it is also necessary to export the installer type.

```
export INSTALLER_TYPE="{installer-type}"
```

### 1.3.2 QTIP default key pair

QTIP uses a SSH key pair to connect to the guest image. This key pair can be found in the `data/` directory.

## 1.4 Examples

QTIP Has been made with the intention of requiring minimal interaction from the user.