



TripleO

OpenStack on OpenStack

TripleO (000)

TripleO is a project aimed at installing, upgrading and operating OpenStack clouds using OpenStack's own cloud facilities as the foundation.

Useful links

- 🌐 tripleo.org
- 📺 bit.do/tripleo
- 💬 [#tripleo](https://freenode.net)

Deploying TripleO

The goal of this upstream cheatsheet is to show how can be deployed a virtual TripleO environment for development and testing purposes.

01 - Create the stack user

```
$ sudo useradd stack
$ echo "stack:stack" | chpasswd
$ echo "stack ALL=(root) \
NOPASSWD:ALL" | sudo tee -a \
/etc/sudoers.d/stack
$ sudo chmod 0440 /etc/sudoers.d/stack
$ su - stack
```

02 - Configure the repositories

```
$ sudo yum -y install epel-release
$ sudo yum -y install yum-plugin-priorities
$ sudo curl -o /etc/yum.repos.d/delorean.repo \
http://buildlogs.centos.org/centos/7/cloud/x86_64/rdo-trunk-master-tripleo/delorean.repo
$ sudo curl -o /etc/yum.repos.d/delorean-deps.repo \
http://trunk.rdoproject.org/centos7/delorean-deps.repo
```

03- Configure the environment

```
$ export NODE_DIST=centos7
$ export NODE_CPU=4
$ export NODE_MEM=9000
$ export NODE_COUNT=6
$ export UNDERCLOUD_NODE_CPU=4
$ export UNDERCLOUD_NODE_MEM=9000
$ export FS_TYPE=ext4

$ sudo yum install -y instack-undercloud
$ instack-virt-setup
```



04 – Connect to the Undercloud

```
$ ssh root@`sudo virsh domifaddr instack | grep $(tripleo get-vm-mac instack) | awk '{print $4}' | sed 's/\./.$/'`
```

05 – Prepare the Overcloud

```
$ su - stack
$ sudo yum -y install yum-plugin-priorities
$ export USE_DELOREAN_TRUNK=1
$ export DELOREAN_TRUNK_REPO="http://buildlogs.centos.org/centos/7/cloud/x86_64/rdo-trunk-master-tripleo/"
$ export DELOREAN_REPO_FILE="delorean.repo"
$ git clone https://github.com/openstack/tripleo-heat-templates
$ git clone https://github.com/openstack-infra/tripleo-ci.git
```

06 – Deploy the Overcloud

```
$ ./tripleo-ci/scripts/tripleo.sh --all
```

DEVELOPER NOTES:

- Minimum requirements: 32GB box
- Step 6 will execute the following tasks: Configure the repositories, install the Undercloud, create the Overcloud images, register and introspect the nodes and finally deploy a TripleO driven Overcloud.
- If needed, it is possible to deploy any stable branch adjusting the repositories from steps 2 and 5.