



TRIPLEO

OpenStack on OpenStack

Triple0 (000)

Triple0 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 Triple0

The goal of this upstream cheatsheet is to show how can be deployed a virtual Triple0 environment for development and testing purposes.

From the hypervisor run the following commands:

01 - Create the toor user.

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

02 - Prepare the hypervisor node.

```
$ cd
$ mkdir .ssh
$ ssh-keygen -t rsa -N "" -f .ssh/id_rsa
$ cat .ssh/id_rsa.pub >> .ssh/authorized_keys
$ sudo bash -c "cat .ssh/id_rsa.pub \
  >> /root/.ssh/authorized_keys"
$ sudo bash -c "echo '127.0.0.1 127.0.0.2' \
  >> /etc/hosts"
$ export VIRTHOST=127.0.0.2
$ ssh root@$VIRTHOST uname -a
$ sudo yum groupinstall "Virtualization Host" -y
$ sudo yum install git lvm2 lvm2-devel -y
```

03 - Clone repos and install deps.

```
$ git clone \
  https://github.com/openstack/tripleo-quickstart
$ chmod u+x ./tripleo-quickstart/quickstart.sh
$ bash ./tripleo-quickstart/quickstart.sh \
  --install-deps
```

DEVELOPER NOTES:

- We will use Triple0 Quickstart to deploy our development environment.
- Minimum requirements: 32GB RAM box.

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
```



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