## Triple0 (000)

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

# **Useful links**

foundation.

🖸 tripleo.org ■bit.do/tripleo ● freenode.net #tripleo

Deploying TripleO The goal of this upstream cheatsheet is to show how can be deployed a virtual TripleO

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
```

03 - Clone repos and install deps.

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

### 02 - Prepare the hypervisor node.

\$ ssh root@\$VIRTHOST uname -a

\$ 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
$ sudo vum groupinstall "Virtualization Host" -v
$ sudo yum install git lvm2 lvm2-devel -y
```

#### DEVELOPER NOTES:

- We will use TripleO Quickstart to deploy our development environment. - Minimum requirements: 32GB RAM box. - This recipe will deploy a 2-nodes

environment with an Overcloud deployed with containers and high availability.

--install-deps

\$ sudo setenforce 0

Use latest CentOS 7 available.

```
$ export CONFIG=~/deploy-config.yaml
$ cat > $CONFIG << EOF</pre>
overcloud_nodes:
  - name: control 0
    flavor: control
    virtualbmc port: 6230
  - name: compute 0
    flavor: compute
    virtualbmc port: 6231
node count: 2
containerized overcloud: true
delete_docker_cache: true
enable pacemaker: true
run tempest: false
extra args: >-
  --libvirt-type gemu
  --ntp-server pool.ntp.org
  -e /usr/share/openstack-tripleo-heat-templates/environments/docker.yaml
  -e /usr/share/openstack-tripleo-heat-templates/environments/docker-ha.yaml
E0F
```

05 - Deploy TripleO.

```
$ export VIRTHOST=127.0.0.2
$ bash ./tripleo-quickstart/quickstart.sh \
    --clean \
    --release master \
    --tags all \
    -e @$CONFIG \
$VIRTHOST
```

#### DEVELOPER NOTES:

- Customize your architecture deployment based on the deploy-config.yaml file.
- Use the quickstart option '--tags' to customize the steps to execute.
- Use the quickstart option '--release' to choose the TripleO version you want to deploy.



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