TripleO (OOO)
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
freenode.net #tripleo

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

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
$ sudo yum groupinstall "Virtualization Host" -y
$ sudo yum install git lvm2 lvm2-devel -y
$ ssh root@$VIRTHOST uname -a

03 - Clone repos and install_deps.
$ git clone \n  https://github.com/openstack/tripleo-quickstart
$ chmod u+x ./tripleo-quickstart/quickstart.sh
$ bash ./tripleo-quickstart/quickstart.sh
  --install-deps
$ sudo setenforce 0

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 a deployed Overcloud using containers and high availability.
- Use latest CentOS 7 available.
04 - Configure the TripleO deployment with Docker and HA.

```bash
$ export CONFIG=/deploy-config.yaml
$ cat > $CONFIG << EOF
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 qemu
  --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
EOF
```

05 - Deploy TripleO.

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

DEVELOPER NOTES:
- Customize your deployed architecture 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.