

Deploy a Cluster with kubeadm

“ **Note:** These instructions are based on the Computer Science Club of the University of Waterloo's OpenStack instance.

Build image

The first step is to build an image using packer. This image will contain all of the tools required to run a Kubernetes node.

“ *TODO: Push packer build to a [git repository](#).*

```
# 0. Locate ourselves
cd $PACKER_DIR/kubernetes

# 1. Load openstack-rc
source ../openstack-rc

# 2. Update image

# 2.1. Update the image name (Kubernetes version and build date)
vim packer.json

# 2.2. Ansible deployment (update kubectl, kubelet and kubeadm version)
vim ansible/provision.yaml

# 3. Run build

# note: token generated with `openstack token issue`
```

```
export OS_TOKEN="TOKEN_FROM_OPENSTACK"  
packer build packer.json
```

Deploy infrastructure

“ *TODO: Document deploying infrastructure using Terraform*

Initialize control plane

“ *TODO: Document initializing infrastructure*

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