

# 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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