

There are a few steps to configuring a local kubectl installation for managing a remote cluster. This lesson will guide you through that process. After completing this lesson, you should have a local kubectl installation that is capable of running kubectl commands against your remote Kubernetes cluster.

In a separate shell, open up an ssh tunnel to port 6443 on your Kubernetes API load balancer:

```
ssh -L 6443:localhost:6443 user@<your Load balancer cloud server public IP>
```

You can configure your local kubectl in your main shell like so.

```
cd ~/kthw

kubectl config set-cluster kubernetes-the-hard-way \
  --certificate-authority=ca.pem \
  --embed-certs=true \
  --server=https://localhost:6443

kubectl config set-credentials admin \
  --client-certificate=admin.pem \
  --client-key=admin-key.pem

kubectl config set-context kubernetes-the-hard-way \
  --cluster=kubernetes-the-hard-way \
  --user=admin

kubectl config use-context kubernetes-the-hard-way
```

Verify that everything is working with:

```
kubectl get pods
kubectl get nodes
kubectl version
```