# Kubernetes - Kubectl

Kubectl is the command line utility to interact with Kubernetes API. It is an interface which is used to communicate and manage pods in Kubernetes cluster.

One needs to set up kubectl to local in order to interact with Kubernetes cluster.

## Setting Kubectl

Download the executable to the local workstation using the curl command.

### On Linux

$ curl -O https://storage.googleapis.com/kubernetesrelease/

release/v1.5.2/bin/linux/amd64/kubectl

### On OS X workstation

$ curl -O https://storage.googleapis.com/kubernetesrelease/

release/v1.5.2/bin/darwin/amd64/kubectl

After download is complete, move the binaries in the path of the system.

$ chmod +x kubectl

$ mv kubectl /usr/local/bin/kubectl

## Configuring Kubectl

Following are the steps to perform the configuration operation.

$ kubectl config set-cluster default-cluster --server = https://${MASTER\_HOST} --

certificate-authority = ${CA\_CERT}

$ kubectl config set-credentials default-admin --certificateauthority = ${

CA\_CERT} --client-key = ${ADMIN\_KEY} --clientcertificate = ${

ADMIN\_CERT}

$ kubectl config set-context default-system --cluster = default-cluster --

user = default-admin

$ kubectl config use-context default-system

Replace **${MASTER\_HOST}** with the master node address or name used in the previous steps.

Replace **${CA\_CERT}** with the absolute path to the **ca.pem** created in the previous steps.

Replace **${ADMIN\_KEY}** with the absolute path to the **admin-key.pem** created in the previous steps.

Replace **${ADMIN\_CERT}** with the absolute path to the **admin.pem** created in the previous steps.

## Verifying the Setup

To verify if the **kubectl** is working fine or not, check if the Kubernetes client is set up correctly.

$ kubectl get nodes

NAME LABELS STATUS

Vipin.com Kubernetes.io/hostname = vipin.mishra.com Ready