


## Step 1: Install Kubectl

1. root@ubuntu-host ~ on  odl\_user\_1031426@cloudlabsgcporg8.com(us-west1) ✖  
sudo apt-get install kubectl

You can install kubectl using the Google Cloud CLI or an external package manager such as apt or yum. We used apt-get to install kubectl

```
gcloud components install kubectl
```

```
sudo apt-get install kubectl
```

2. Verify that **kubectl** is installed
  - a. kubectl version

## Step 2: Verify installation of required plugins

Before you begin, check whether the plugin is already installed:

```
gke-gcloud-auth-plugin --version
```

If the output displays version information, skip this section.

1. gcloud components install gke-gcloud-auth-plugin
2. gke-gcloud-auth-plugin --version

Step 3: generate a kubeconfig context for a specific cluster and to use the plugin:

1. gcloud container clusters get-credentials *CLUSTER\_NAME* --region=*COMPUTE\_REGION*
  - Replace the following:
    - i. *CLUSTER\_NAME*: the name of your cluster.
    - ii. *COMPUTE\_REGION*: the Compute Engine region for your cluster. For zonal clusters, use *--zone=COMPUTE\_ZONE*.

```
gcloud container clusters get-credentials gke-deep-dive --zone us-west1-a
```

#### Step 4: Verify the configuration:

2. `kubectl get namespaces`

- The output is similar to the following:

NAME	STATUS	AGE
default	Active	51d
kube-node-lease	Active	51d
kube-public	Active	51d
kube-system	Active	51d

#### Step 5: View Kubeconfig

`kubectl config view`

#### Step 6: Install a test app:

```
kubectl run my-app --image gcr.io/cloud-marketplace/google/nginx1:latest --cluster  
<Cluster-Name>
```

#### Step 7: Verify the app by listing pods:

`Kubectl get pods`