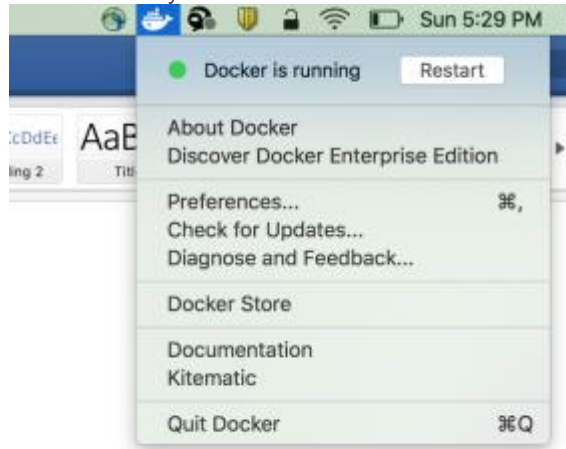


Docker Installation:

<https://docs.docker.com/docker-for-mac/install/>

Once installed you will see:



#### Validate the installation:

```
m-C02S23PLG8WM:docker-python-app aramar1$ docker version
```

Client:

```
Version: 17.03.1-ce  
API version: 1.27  
Go version: go1.7.5  
Git commit: c6d412e  
Built: Tue Mar 28 00:40:02 2017  
OS/Arch: darwin/amd64
```

Server:

```
Version: 17.03.1-ce  
API version: 1.27 (minimum version 1.12)  
Go version: go1.7.5  
Git commit: c6d412e  
Built: Fri Mar 24 00:00:50 2017  
OS/Arch: linux/amd64  
Experimental: true
```

#### Docker commands:

```
docker build -t <app name> .  
docker run <appname>  
docker stats  
docker ps -->
```

#### Step 1. How to write a Docker File:

Write a Docker file with name **Dockerfile**

#### Add your commands to build your application:

**Eg:**

```
FROM python:2.7  
ADD trackLocationFromWeb.py /  
RUN pip install flask  
RUN pip install web.py  
RUN pip install geocode  
EXPOSE 5000  
CMD [ "python", "./<your server program>.py" ]
```

## Step 2. To build an App

to build the app >**docker build -t <app name>** .

## Step 3. To verify the image created:

```
$docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
track-python-app-exampl	933d4845ac4c	933d4845ac4c	2 days ago	740 MB

## Step 4. To run your app.

to run with log >**docker run --name logging-01 -t -d -v \$(pwd):/tmp -w /tmp -p 5000:5000 <appName>**

Eg.

**docker run --name logging-01 -t -d -v \$(pwd):/tmp -w /tmp -p 5000:5000 track-python-app-exampl**

## Step 5. To check the status of the Docker and check your application

to see process >**docker ps** or **docker stats**

TO ssh into the container >**sudo docker exec -it <image-id-or-container id> bash**

To view the Docker Logs > **docker logs -f logging-02**

To test the application > **curl 127.0.0.1:5000 -v**

## Step 6: Pushing the Docker to a public hub:

To do this you must sign to Docker hub : [https://docs.docker.com/engine/getstarted/step\\_five/](https://docs.docker.com/engine/getstarted/step_five/)

To push to google container registry: <https://cloud.google.com/container-registry/docs/pushing>

#To Create an image with latest tag> **docker tag fb37732d54a9 <imagename>:<tagid>**

#To Push Docker image to hub > **docker push <yourhubname/imagename>**

Kubernetes Installation :

Refer: [Kubernetes\\_install.pdf](#)

[https://confluence.walmart.com/download/attachments/189837932/Kubernetes\\_install.pdf?version=1&modificationDate=1491794785000&api=v2](https://confluence.walmart.com/download/attachments/189837932/Kubernetes_install.pdf?version=1&modificationDate=1491794785000&api=v2)

### To Start the Kubernetes:

minikube start

### Get Kubernetes cluster info :

1. `kubectl cluster-info`

Kubernetes master is running at <https://192.168.99.100:8443>

KubeDNS is running at <https://192.168.99.100:8443/api/v1/proxy/namespaces/kube-system/services/kube-dns>

kubernetes-dashboard is running at <https://192.168.99.100:8443/api/v1/proxy/namespaces/kube-system/services/kubernetes-dashboard>

2. The above address would give unauthorized so you need to proxy with the `kubectl proxy --address="0.0.0.0" --port=9090`

1. in Browser access the port using local host
2. <http://127.0.0.1:9090/api/v1/proxy/namespaces/kube-system/services/kubernetes-dashboard/#/pod?namespace=default>

### Create the Deployment:

`kubectl run <app-image-name> --image=<image-path> --port=5000`

### kubectl get deployments

m-C02S23PLG8WM:docker-python-app aramar1\$ `kubectl get deployments`

NAME	DESIRED	CURRENT	UP-TO-DATE	AVAILABLE	AGE
docker-python-app	1	1	1	1	3m

### check the status of the pod created:

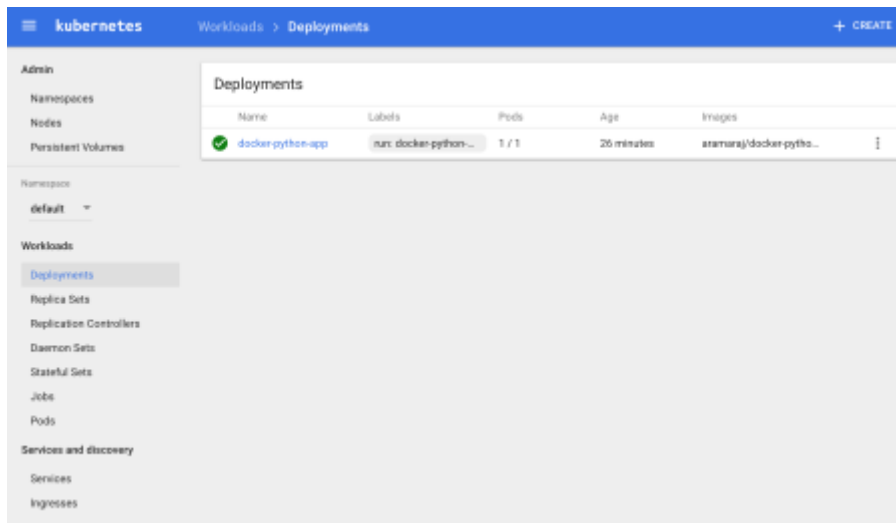
m-C02S23PLG8WM:docker-python-app aramar1\$ `kubectl get pods -o wide`

NAME	READY	STATUS	RESTARTS	AGE	IP	NODE
docker-python-app-3657222991-t5kb9	1/1	Running	0	3m	172.17.0.4	minikube

### Check the Events: (event log)

`kubectl get events`

Check the Deployment in Dash board:



Deployments					
Name	Labels	Pods	Age	Images	
✓ docker-python-app	run: docker-python...	1 / 1	26 minutes	aramaraj/docker-pytha...	

Check the configuration:

kubectl config view

```
m-C02S23PLG8WM:docker-python-app aramar1$ kubectl config view
```

```
apiVersion: v1
```

```
clusters:
```

```
- cluster:
```

```
  certificate-authority: /Users/aramar1/.minikube/ca.crt
```

```
  server: https://192.168.99.100:8443
```

```
  name: minikube
```

```
contexts:
```

```
- context:
```

```
  cluster: minikube
```

```
  user: minikube
```

```
  name: minikube
```

```
current-context: minikube
```

```
kind: Config
```

```
preferences: {}
```

```
users:
```

```
- name: minikube
```

```
  user:
```

```
    client-certificate: /Users/aramar1/.minikube/apiserver.crt
```

```
    client-key: /Users/aramar1/.minikube/apiserver.key
```

## Check if the application runs on the POD:

m-C02S23PLG8WM:docker-python-app aramar1\$ minikube ssh

\$ curl 172.17.0.4:5000/track?name=ashok

Location of the Delivery truck number ashok is 315-317 N 10th St, San Jose, CA 95112, USA and Map URL is

<http://maps.google.com/?q=37.345622600,-121.884722400>

The screenshot shows the Kubernetes dashboard with the 'Logs' tab selected for the 'docker-python-app' pod. The logs display a series of timestamps and log messages, including a JSON object representing location data. The location data includes coordinates (lat, lng), a location type ('APPROXIMATE'), a viewport (northeast, southwest), and a place ID ('ChIJPV4oX\_65j4ARVW8IJ6IUYs'). The logs also show a status message 'OK' and a GET request to the /track?name=ashok endpoint.

```
2017-04-07T05:28:28.794457570Z      "lng": -124.482003
2017-04-07T05:28:28.794459757Z      }
2017-04-07T05:28:28.794461867Z      },
2017-04-07T05:28:28.794463981Z      "location": {
2017-04-07T05:28:28.794466192Z        "lat": 36.778261,
2017-04-07T05:28:28.794468409Z        "lng": -119.4179324
2017-04-07T05:28:28.794470615Z      },
2017-04-07T05:28:28.794472713Z      "location_type": "APPROXIMATE",
2017-04-07T05:28:28.794475020Z      "viewport": {
2017-04-07T05:28:28.794477227Z        "northeast": {
2017-04-07T05:28:28.794479435Z          "lat": 42.089378,
2017-04-07T05:28:28.794481670Z          "lng": -114.131211
2017-04-07T05:28:28.794483940Z        },
2017-04-07T05:28:28.794486052Z        "southwest": {
2017-04-07T05:28:28.794488271Z          "lat": 32.5342052,
2017-04-07T05:28:28.794490526Z          "lng": -124.4151821
2017-04-07T05:28:28.794492778Z        }
2017-04-07T05:28:28.794494981Z      }
2017-04-07T05:28:28.794497052Z    },
2017-04-07T05:28:28.794499185Z    "place_id": "ChIJPV4oX_65j4ARVW8IJ6IUYs",
2017-04-07T05:28:28.794501524Z    "types": [
2017-04-07T05:28:28.794503730Z      "administrative_area_level_1",
2017-04-07T05:28:28.794505942Z      "establishment",
2017-04-07T05:28:28.794508042Z      "point_of_interest",
2017-04-07T05:28:28.794510959Z      "political"
2017-04-07T05:28:28.794514866Z    ]
2017-04-07T05:28:28.794517015Z  },
2017-04-07T05:28:28.794519126Z  ],
2017-04-07T05:28:28.794521257Z  "status": "OK"
2017-04-07T05:28:28.794523543Z }
2017-04-07T05:28:30.006223543Z 172.17.0.1 - - [07/Apr/2017 05:28:30] "GET /track?name=ashok HTTP/1.1"
200 -
```

## Create a Service to expose the service outside:

Note we must use the `type=NodePort` because *minikube* doesn't support the *LoadBalancer* service. We can check if the service was exposed by listing services:

m-C02S23PLG8WM:docker-python-app aramar1\$ **kubectl expose deployment <service-name> --type=NodePort**

service "docker-python-app" exposed

m-C02S23PLG8WM:docker-python-app aramar1\$

Get the services:

kubectl get svc

Services Dash board:

The screenshot shows the Kubernetes dashboard with the 'Services' tab selected. It displays a table of services, including the 'docker-python-app' service, which is exposed on port 5000. The table also shows the 'kubernetes' service, which is exposed on port 443.

Name	Labels	Cluster IP	Internal endpoints	External endpoints
docker-python-app	run: docker-pytho...	10.0.0.44	docker-python-app:8...	docker-python-app:3...
kubernetes	component: apise...	10.0.0.1	kubernetes:443 TCP	kubernetes:8 TCP

```
m-C02S23PLG8WM:kubernetes aramar1$ kubectl get svc
NAME      CLUSTER-IP  EXTERNAL-IP  PORT(S)    AGE
kubernetes 10.0.0.1    <none>       443/TCP    8h
web        10.0.0.34   <nodes>      80:30940/TCP 3m
```

### Get the Exposed Service URL:

```
minikube service -n default --url docker-python-app
http://192.168.99.100:30587
```

## Kubernetes Scale:

### Scale the deployment pod:


```
m-C02S23PLG8WM:docker-python-app aramar1$ kubectl scale deployments/docker-python-app --replicas=3
deployment "docker-python-app" scaled
```

### get the deployments:

```
m-C02S23PLG8WM:docker-python-app aramar1$ kubectl get deployments
NAME          DESIRED  CURRENT  UP-TO-DATE  AVAILABLE  AGE
docker-python-app 3        3        3           3          23m
```

### get pods

```
m-C02S23PLG8WM:docker-python-app aramar1$ kubectl get pods -o wide
NAME                                READY   STATUS    RESTARTS   AGE   IP           NODE
docker-python-app-2874657604-3h5j4 1/1     Running   0          4m    172.17.0.2   minikube
docker-python-app-2874657604-llb6c 1/1     Running   0          4m    172.17.0.5   minikube
docker-python-app-2874657604-xlgvh 1/1     Running   0          24m    172.17.0.6   minikube
```

New Replica Set				
Name	Labels	Pods	Age	Images
 <a href="#">docker-python-app-28...</a>	pod-template-hash: ... run: docker-python-...	3 / 3	22 minutes	aramaraj/docker-pyth...

Admin

Namespaces

Nodes

Persistent Volumes

Workloads










Services and discovery

Storage

Workloads > Pods

default

Pods

Name	Status	Restarts	Age
 docker-python-app-2874657604-2h5q4	Running	0	37 seconds  
 docker-python-app-2874657604-4b44c	Running	0	37 seconds  
 docker-python-app-2874657604-x4ghc	Running	0	20 minutes  

**Describe the Deployment:**

```
m-C02S23PLG8WM:docker-python-app aramar1$ kubectl describe deployments/docker-python-app
```

```
Name:                docker-python-app
Namespace:           default
CreationTimestamp:   Fri, 07 Apr 2017 01:30:37 -0700
Labels:              run=docker-python-app
Annotations:         deployment.kubernetes.io/revision=3
Selector:            run=docker-python-app
Replicas:            3 desired | 3 updated | 3 total | 3 available | 0 unavailable
StrategyType:        RollingUpdate
MinReadySeconds:     0
RollingUpdateStrategy: 1 max unavailable, 1 max surge
Pod Template:
```

```
Labels: run=docker-python-app
Containers:
  docker-python-app:
    Image:          aramaraj/docker-python-app
    Port:          5000/TCP
    Environment:    <none>
    Mounts:         <none>
    Volumes:        <none>
Conditions:
  Type            Status      Reason
  ----            -
  Available       True       MinimumReplicasAvailable
  OldReplicaSets: <none>
  NewReplicaSet:  <none>
```

Events:						
FirstSeen	LastSeen	Count	From	SubObjectPath	Type	Reason
-----	-----	-----	-----	-----	-----	-----
26m	26m	1	deployment-controller		Normal	
	ScalingReplicaSet	Scaled up replica set	docker-python-app-2874657604	to 1		
26m	26m	1	deployment-controller		Normal	
	ScalingReplicaSet	Scaled down replica set	docker-python-app-3657222991	to 0		
5m	5m	1	deployment-controller		Normal	
	ScalingReplicaSet	Scaled up replica set	docker-python-app-2874657604	to 3		

## **Load Balancing Kubernetes**

Show the service hit by the URL

```
kubectl logs docker-python-app-2874657604-3h5j4
```



Running in Cloud:

## Before you begin

1. Select or create a Cloud Platform project -
2. Enable billing for your project.
3. Enable the Cloud Datastore, Cloud Storage, and Cloud Pub/Sub APIs.
  1. <https://console.cloud.google.com/apis/dashboard?project=kubernetes-java&duration=PT1H>
4. [Install and initialize the Cloud SDK](https://cloud.google.com/sdk/docs/). <https://cloud.google.com/sdk/docs/>

```
m-C02S23PLG8WM:Downloads aramar1$ cd google-cloud-sdk/
m-C02S23PLG8WM:google-cloud-sdk aramar1$ ls
LICENSE                                VERSION                                completion.zsh.inc install.sh
path.fish.inc                          properties
README                                bin                                  help                                lib
path.zsh.inc
RELEASE_NOTES                          completion.bash.inc                  install.bat                        path.bash.inc
platform
m-C02S23PLG8WM:google-cloud-sdk aramar1$ ./google-cloud-sdk/install.sh
-bash: ./google-cloud-sdk/install.sh: No such file or directory
m-C02S23PLG8WM:google-cloud-sdk aramar1$ ./install.
-bash: ./install.: No such file or directory
m-C02S23PLG8WM:google-cloud-sdk aramar1$ ./install.sh
Welcome to the Google Cloud SDK!
```

To help improve the quality of this product, we collect anonymized usage data and anonymized stacktraces when crashes are encountered; additional information is available at <<https://cloud.google.com/sdk/usage-statistics>>. You may choose to opt out of this collection now (by choosing 'N' at the below prompt), or at any time in the future by running the following command:

```
gcloud config set disable_usage_reporting true
```

Do you want to help improve the Google Cloud SDK (Y/n)? Y

Your current Cloud SDK version is: 150.0.0

The latest available version is: 150.0.0

Components			
Status	Name	ID	Size
Not Installed	App Engine Go Extensions	app-engine-go	47.7 MiB
Not Installed	Bigtable Command Line Tool	cbt	3.9 MiB
Not Installed	Cloud Datalab Command Line Tool	datalab	< 1 MiB
Not Installed	Cloud Datastore Emulator	cloud-datastore-emulator	15.4 MiB
Not Installed	Cloud Datastore Emulator (Legacy)	gcd-emulator	38.1 MiB
Not Installed	Cloud Pub/Sub Emulator	pubsub-emulator	21.0 MiB
Not Installed	Emulator Reverse Proxy	emulator-reverse-proxy	56.8 MiB
Not Installed	Google Container Registry's Docker credential helper	docker-credential-gcr	3.4 MiB
Not Installed	gcloud Alpha Commands	alpha	< 1 MiB
Not Installed	gcloud Beta Commands	beta	< 1 MiB
Not Installed	gcloud app Java Extensions	app-engine-java	128.6 MiB

Not Installed	gcloud app PHP Extensions (Mac OS X)	app-engine-php-darwin	21.9 MiB
Not Installed	gcloud app Python Extensions	app-engine-python	6.1 MiB
Not Installed	kubectl	kubectl	14.8 MiB
Installed	BigQuery Command Line Tool	bq	< 1 MiB
Installed	Cloud SDK Core Libraries	core	5.8 MiB
Installed	Cloud Storage Command Line Tool	gsutil	2.9 MiB
Installed	Default set of gcloud commands	gcloud	

To install or remove components at your current SDK version [150.0.0], run:

```
$ gcloud components install COMPONENT_ID
```

```
$ gcloud components remove COMPONENT_ID
```

To update your SDK installation to the latest version [150.0.0], run:

```
$ gcloud components update
```

Modify profile to update your \$PATH and enable shell command completion? (Y/n)? Y

The Google Cloud SDK installer will now prompt you to update an rc file to bring the Google Cloud CLIs into your environment.

Enter a path to an rc file to update, or leave blank to use

[/Users/aramar1/.bash\_profile]:

Backing up [/Users/aramar1/.bash\_profile] to [/Users/aramar1/.bash\_profile.backup].

[/Users/aramar1/.bash\_profile] has been updated.

==> Start a new shell for the changes to take effect.

For more information on how to get started, please visit:

<https://cloud.google.com/sdk/docs/quickstarts>

```
m-C02S23PLG8WM:google-cloud-sdk aramar1$ ./google-cloud-sdk/bin/gcloud init
```

```
-bash: ./google-cloud-sdk/bin/gcloud: No such file or directory
```

```
m-C02S23PLG8WM:google-cloud-sdk aramar1$ ./bin/gcloud init
```

Welcome! This command will take you through the configuration of gcloud.

Your current configuration has been set to: [default]

You can skip diagnostics next time by using the following flag:

```
gcloud init --skip-diagnostics
```

Network diagnostic detects and fixes local network connection issues.

Checking network

connection...done.

Reachability Check passed.

Network diagnostic (1/1 checks) passed.

You must log in to continue. Would you like to log in (Y/n)? Y

Your browser has been opened to visit:

[https://accounts.google.com/o/oauth2/auth?redirect\\_uri=http%3A%2F%2Flocalhost%3A8085%2F&prompt=select\\_account&response\\_type=code&client\\_id=32555940559.apps.googleusercontent.com&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.goog](https://accounts.google.com/o/oauth2/auth?redirect_uri=http%3A%2F%2Flocalhost%3A8085%2F&prompt=select_account&response_type=code&client_id=32555940559.apps.googleusercontent.com&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.goog)

leapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth&accesstype=offline

You are logged in as: [ashok.ramaraj@gmail.com].

Pick cloud project to use:

- [1] crack-case-134420
- [2] culverttracker-1473314615838
- [3] daring-harmony-142406
- [4] inbound-object-131706
- [5] kuernetes-java
- [6] sammydemo-154906
- [7] trackerdemojs-1473447840777

Please enter numeric choice or text value (must exactly match list item): 5

Your current project has been set to: [kuernetes-java].

Not setting default zone/region (this feature makes it easier to use [gcloud compute] by setting an appropriate default value for the --zone and --region flag).

See <https://cloud.google.com/compute/docs/gcloud-compute> section on how to set default compute region and zone manually. If you would like [gcloud init] to be able to do this for you the next time you run it, make sure the Compute Engine API is enabled for your project on the <https://console.developers.google.com/apis> page.

Created a default .boto configuration file at [/Users/aramar1/.boto]. See this file and [<https://cloud.google.com/storage/docs/gsutil/commands/config>] for more information about configuring Google Cloud Storage. Your Google Cloud SDK is configured and ready to use!

- \* Commands that require authentication will use ashok.ramaraj@gmail.com by default
- \* Commands will reference project 'kuernetes-java' by default

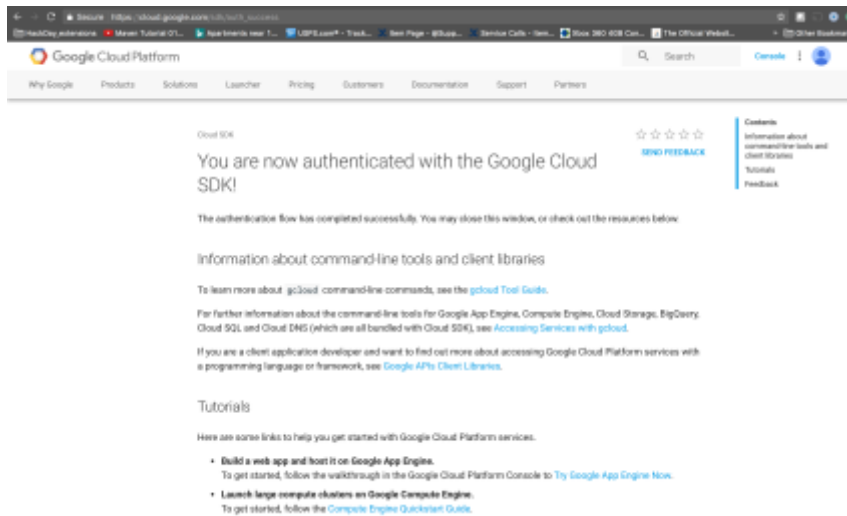
Run 'gcloud help config' to learn how to change individual settings

This gcloud configuration is called [default]. You can create additional configurations if you work with multiple accounts and/or projects. Run 'gcloud topic configurations' to learn more.

Some things to try next:

- \* Run 'gcloud --help' to see the Cloud Platform services you can interact with. And run 'gcloud help COMMAND' to get help on any gcloud command.
- \* Run 'gcloud topic -h' to learn about advanced features of the SDK like arg files and output formatting

m-C02S23PLG8WM:google-cloud-sdk aramar1\$



5. Install [Docker](#). Docker is used to build container images locally.

## Creating a Container Engine cluster

```
m-C02S23PLG8WM:bin aramar1$ ./gcloud container clusters create docker-python-app --scopes "cloud-platform" --num-nodes 2
```

```
Creating cluster docker-python-app...]
```

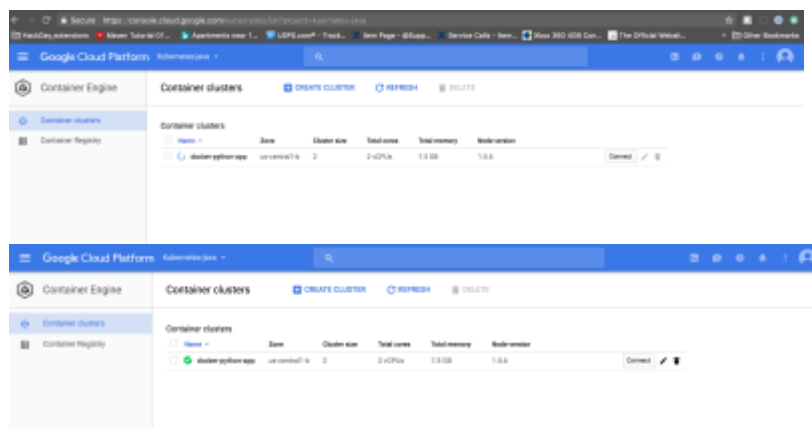
```
m-C02S23PLG8WM:bin aramar1$ ./gcloud container clusters create docker-python-app --scopes "cloud-platform" --num-nodes 2
```

```
Creating cluster docker-python-app...done.
```

```
Created [https://container.googleapis.com/v1/projects/kuernetes-java/zones/us-central1-b/clusters/docker-python-app].
```

```
kubeconfig entry generated for docker-python-app.
```

NAME	ZONE	MASTER_VERSION	MASTER_IP	MACHINE_TYPE	NODE_VERSION	NUM_NODES	STATUS
docker-python-app	us-central1-b	1.5.6	<MASTER_IP>	n1-standard-1	1.5.6	2	RUNNING



Get the credentials for the cluster:

```
./gcloud container clusters get-credentials docker-python-app
```

```
Fetching cluster endpoint and auth data.
```

```
kubeconfig entry generated for docker-python-app.
```

## Status

m-C02S23PLG8WM:bin aramar1\$ kubectl cluster-info

Kubernetes master is running at <https://<externalip>>

GLBCDefaultBackend is running at <https://<externalip>/api/v1/proxy/namespaces/kube-system/services/default-http-backend>

Heapster is running at <https://<externalip>/api/v1/proxy/namespaces/kube-system/services/heapster>

KubeDNS is running at <https://<externalip>/api/v1/proxy/namespaces/kube-system/services/kube-dns>

kubernetes-dashboard is running at <https://<externalip>/api/v1/proxy/namespaces/kube-system/services/kubernetes-dashboard>

Accesss the Dash board:

m-C02S23PLG8WM:bin aramar1\$ kubectl proxy

Starting to serve on 127.0.0.1:8001

<http://127.0.0.1:8001/api/v1/proxy/namespaces/kube-system/services/kubernetes-dashboard/#/workload?namespace=default>

## Create the deployment :

m-C02S23PLG8WM:bin aramar1\$ kubectl run docker-python-app --image=aramaraj/docker-python-app --port=5000  
deployment "docker-python-app" created

The screenshot shows the Kubernetes dashboard interface. On the left is a sidebar with navigation links: Admin, Namespaces, Nodes, Persistent Volumes, Overview (selected), Deployments, Replica Sets, Replication Controllers, Daemon Sets, Stateful Sets, Jobs, Pods, Services and discovery, Services, Ingresses, and Storage. The main panel is titled 'Workloads' and contains three sections: Deployments, Replica Sets, and Pods. The Deployments section shows a single deployment 'docker-python-app' with 1/1 pods. The Replica Sets section shows a single replica set 'docker-python-app-287465764' with 1/1 pods. The Pods section shows a single pod 'docker-python-app-287465764-f16c' in a 'Running' state.

Deployments					
Name	Labels	Pods	Age	Images	
docker-python-app	run: docker-python-app	1 / 1	a minute	aramaraj/docker-python-app	

Replica Sets					
Name	Labels	Pods	Age	Images	
docker-python-app-287465764	pod-template-hash: 287465764 run: docker-python-app	1 / 1	a minute	aramaraj/docker-python-app	

Pods						
Name	Status	Restarts	Age	CPU (cores)	Memory (bytes)	
docker-python-app-287465764-f16c	Running	0	a minute	-	-	

## Create the services

m-C02S23PLG8WM:bin aramar1\$ kubectl expose deployment docker-python-app --type=LoadBalancer  
service "docker-python-app" exposed

## Get the Service details:

m-C02S23PLG8WM:bin aramar1\$ kubectl get svc

NAME	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
docker-python-app	<clusterIP>	<EXTERNAL_IP>	5000:30398/TCP	1m
kubernetes	<kubernetes-ip>	<none>	443/TCP	40m

Services					
Name	Labels	Cluster IP	Internal endpoints	External endpoints	
✓ docker-python-app	run: docker-python-app	10.87.245.179	docker-python-app:5000 TCP docker-python-app:30288 TC	104.154.166.242:5000	⋮
✓ kubernetes	component: apiserver provider: kubernetes	10.87.240.1	kubernetes:443 TCP kubernetes:9 TCP	-	⋮

<http://<externalip>:5000/>

Output:

welcome !