

部署并运行Shifu:

```
Finished setting up demo !
carol@ubuntu:~/Desktop$ sudo kubectl get pods -A
NAMESPACE      NAME                                                    READY   STATUS    RESTARTS   AGE
devices        agv-574f879cbf-7xfhc                                  1/1     Running   0           8s
deviceshifu    deviceshifu-agv-deployment-7c9d7cc9fd-9nqn timer 1/1     Running   0           6s
kube-system    coredns-5d78c9869d-76hd1                             1/1     Running   0          27s
kube-system    coredns-5d78c9869d-zt47t                             1/1     Running   0          27s
kube-system    etcd-kind-control-plane                              1/1     Running   0          43s
kube-system    kindnet-gs4m4                                          1/1     Running   0          28s
kube-system    kube-apiserver-kind-control-plane                    1/1     Running   0          43s
kube-system    kube-controller-manager-kind-control-plane           1/1     Running   0          43s
kube-system    kube-proxy-qph6z                                       1/1     Running   0          28s
kube-system    kube-scheduler-kind-control-plane                    1/1     Running   0          43s
local-path-storage local-path-provisioner-6bc4bdddb-4rhd5                1/1     Running   0          27s
shifu-crd-system shifu-crd-controller-manager-56fd5c4cd6-dfv96        1/2     Running   0           8s
```

容器化go应用

```
carol@ubuntu:~/Desktop/shifu-microplate-reader$ vim main.go
carol@ubuntu:~/Desktop/shifu-microplate-reader$ docker build -t zaynzzy/microplate-reader-app:v0 .
Sending build context to Docker daemon 116.7kB
Step 1/7 : FROM golang:1.18-alpine
--> a77f45e5f987
Step 2/7 : WORKDIR /app
--> Using cache
--> 4d4790796c86
Step 3/7 : COPY go.mod ./
--> Using cache
--> 4a2ad0f7536d
Step 4/7 : RUN go mod download
--> Using cache
--> 1dbdbb7567f0
Step 5/7 : COPY *.go ./
--> Using cache
--> 97d020d4d3ef
Step 6/7 : RUN go build -o /microplate-reader
--> Using cache
--> 21d56ab8e8d0
Step 7/7 : CMD [ "/microplate-reader" ]
--> Using cache
--> dc733cdb5
Successfully built 5c9dc733cdb5
Successfully tagged zaynzzy/microplate-reader-app:v0
```

Go应用运行在Shifu的k8s集群当中

```
carol@ubuntu:~/Desktop/shifu-microplate-reader$ sudo kubectl get pods -n deviceshifu
NAME                                                    READY   STATUS    RESTARTS   AGE
deviceshifu-agv-deployment-7c9d7cc9fd-9nqn timer 1/1     Running   0           27m
deviceshifu-plate-reader-deployment-784f8d948-vx4qg 1/1     Running   0           21m
microplate-reader-app-7f94998789-89vc6             1/1     Running   0           30s
microplate-reader-app-7f94998789-qjr5h             1/1     Running   0           30s
```

通过kubectl logs命令可以查看打印的值

```
carol@ubuntu:~/Desktop/shifu-microplate-reader$ sudo kubectl logs microplate-reader-app-7f94998789-qjr5h -n deviceshifu
Average measurement: 1.3587037037037035
Average measurement: 1.3989814814814816
```