Kubernetes CSI driver for mounting [Google Cloud Storage](https://cloud.google.com/storage) buckets

1. Open a google cloud service account here: <https://cloud.google.com/iam/docs/service-account-overview>

Open a new project and create a bucket(volume).

1. Like other CSI drivers, a [StatefulSet](https://kubernetes.io/docs/concepts/workloads/controllers/statefulset/) and [DaemonSet](https://kubernetes.io/docs/concepts/workloads/controllers/daemonset/) are the recommended deployment mechanisms for the [Controller Plugin](https://kubernetes-csi.github.io/docs/deploying.html#controller-plugin) and [Node Plugin](https://kubernetes-csi.github.io/docs/deploying.html#node-plugin), respectively.

kubectl apply -k "github.com/ofek/csi-gcs/deploy/overlays/stable?ref=v0.9.0"

kubectl get CSIDriver,daemonsets,pods -n kube-system

to check logs:

kubectl logs -l app=csi-gcs -c csi-gcs -n kube-system

1. After acquiring a [service account key](https://ofek.dev/csi-gcs/static_provisioning/#permission), create a [secre](https://kubernetes.io/docs/concepts/configuration/secret/)t

kubectl create secret generic csi-gcs-secret --from-literal=bucket=<BUCKET\_NAME> --from-file=key=<PATH\_TO\_SERVICE\_ACCOUNT\_KEY>

run: kubectl apply -k "github.com/ofek/csi-gcs/examples/static?ref=v0.9.0"

Confirm it's working by running: kubectl get pods,pv,pvc

1. Try creating some data on your bucket and accessing it:

kubectl exec csi-gcs-test-5f677df9f9-f59km -c writer -- /bin/sh -c "echo Hello from Google Cloud Storage! > /data/test.txt"

$ kubectl exec csi-gcs-test-5f677df9f9-f59km -c reader -it -- /bin/sh

/ # ls -lh /data

total 1K

-rw-r--r-- 1 root root 33 May 26 21:23 test.txt

/ # cat /data/test.txt

Hello from Google Cloud Storage!

Your CSI driver is configured and a bucket is attached to the same.