CS571 Mansi Shah (19526) Week 10

Using a GCE Persistent Disk in a pod volume

Step:1 \$ gcloud container clusters list

```
Step:2 $ gcloud compute disks create --size=1GiB --zone=europe-west1-b mongodb

shahm8888cloudshelf:~ (bookshelf19526)$ gcloud compute disks create --size=1GiB --zone=europe-west1-b mongodb

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warning: You have selected a disk size of under [200GB]. This may result in poor I/O performance. For more information, see: https://devempute/docs/disks/performance.

Created [https://www.googleapis.com/compute/v1/projects/bookshelf19526/zones/us-west1-b/disks/mongodb].

NAME ZONE SIZE_GB TYPE STATUS

mongodb us-west1-b 1 pd-standard READY

New disks are unformatted. You must format and mount a disk before it
can be used. You can find instructions on how to do this at:

https://cloud.google.com/compute/docs/disks/add-persistent-disk#formatting
```

Step:3 Creating a pod using a gcePersistentDisk volume

```
shahm888@cloudshell:~ (bookshelf19526) $ vim mongodb-pod-gcepd.yaml
shahm888@cloudshell:~ (bookshelf19526) $ cat mongodb-pod-gcepd.yaml
apiVersion: v1
kind: Pod
metadata:
  name: mongodb
spec:
  volumes:
  - name: mongodb-data
    gcePersistentDisk:
      pdName: mongodb
      fsType: ext4
  containers:
  - image: mongo
    name: mongodb
    volumeMounts:
    - name: mongodb-data
      mountPath: /data/db
    ports:
    containerPort: 27017
      protocol: TCP
shahm888@cloudshell:~ (bookshelf19526)$
```

Insert new entry into DB

```
Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).
The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.
 To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
> use mystore
switched to db mystore
> db.foo.insert({name:'foo'})
WriteResult({ "nInserted" : 1 })
> db.foo.find()
{ "id" : ObjectId("5e733aff15d433da11e2e743"), "name" : "foo" }
>
```

Delete pod and Create pod and search for entry.

```
Saham8888cloudshell: (bookshelf19526) kubectl delete pod mongodb pod "mongodb" deleted saham888eloudshell: (bookshelf19526) kubectl create -f mongodb-pod-gcepd.yaml
Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).
 The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.
 To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
 > use mystore
switched to db mystore
> do.foo.find()
2020-03-19T09:31:46.477+0000 E QUERY [js] uncaught exception: SyntaxError: expected expression, got '.':
8 (shell):1:2
> |
```