Environment Setup for Gemfire Cluster on Kubernetes

Create Gemfire Cluster

We are going to work in the default namespace. There is a more complete example that can be found with the docs at VMware Tanzu Gemfire where the first step is to create a gemfire-cluster namespace. Alsom In our simplified approach we will not use security.

Apply the CRD for your Tanzu GemFire cluster, as in this development environment example:

```
$ cat << EOF | kubectl -n gemfire-cluster apply -f -</pre>
apiVersion: core.geode.apache.org/v1alpha1
kind: GeodeCluster
metadata:
  name: gemfire1
spec:
  locators:
    replicas: 2
  servers:
    replicas: 2
EOF
or you can simply create a yaml file from the contents like gemfire-cluster.yaml:
apiVersion: core.geode.apache.org/vlalphal
kind: GeodeCluster
metadata:
  name: gemfire1
spec:
  locators:
    replicas: 2
  servers:
    replicas: 2
and create the gemfire-cluster with the following command:
kubectl apply -f gemfire-cluster.yaml
```

check the creation status of the Tanzu GemFire cluster:

kubectl get GeodeClusters

and you should see an output that looks similar to this:

NAME LOCATORS SERVERS

gemfire1 2/2 1/2

Connect to the Tanzu GemFire Cluster

kubectl exec -it gemfire-locator-0 -- gfsh

Verify Gemfire is working

Since the cluster is deployed for us we need only connect. Do the following:

gfsh>connect

and to see the topology and configuration of your clustter you can do the following:

gfsh>list members