

Environment Setup for Gemfire Cluster on Kubernetes

Create Gemfire Cluster

We are going to take a very simple approach to creating our gemfire cluster by entering the following:

```
$ kubectl create gemfire-cluster
```

This creates a gemfire cluster in the default namespace. There is a more complete example that can be found with the docs at [VMware Tanzu Gemfire](https://vmware-tanzu.github.io/gemfire/docs/1.10.0/quickstart.html). 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 -
apiVersion: core.geode.apache.org/v1alpha1
kind: GeodeCluster
metadata:
  name: gemfire1
spec:
  locators:
    replicas: 2
  servers:
    replicas: 2
EOF
```

check the creation status of the Tanzu GemFire cluster:

```
## Connect to the Tanzu GemFire Cluster

```bash
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
```