Tanzu related readings + exploration

- Skaffold - Reference: Section 17 in "Spring on Kubernetes" workshop at https://tanzu.vmware.com/developer/workshops/ - iterate on your application source code locally then deploy to local or remote Kubernetes clusters https://github.com/GoogleContainerTools/skaffold Use Config CRD with kubectl in the deploy property - `scaffold dev —port-forward` Kustomize CLI vs Helm package install with values file - Reference: Section 24 in "Spring on Kubernetes" workshop at https://tanzu.vmware.com/developer/workshops/ - eg. `mkdir -p kustomize/base` : contains base definitions for all environments eg. `mkdir -p kustomize/qa` : contains `patchesStrategicMerge` and files defining overrides. - In both directory above, there is a `kustomization.yaml` file defining resources (Kustomization CRD) eg. `kustomize build kustomize/qa | kubectl apply -f -` - By default kustomize generates a random name suffix for the ConfigMap. Kustomize will take care of reconciling this when the ConfigMap is referenced in other places (ie in volumes). It does this to force a change to the Deployment and in turn force the app to be restarted by Kubernetes. This isn't always what you want, for instance if the ConfigMap and the Deployment are not in the same Kustomization. If you want to omit the random suffix, you can set behavior=merge (or replace) in the configMapGenerator. https://kustomize.io/ Kustomize + Kubectl : https://kubectl.docs.kubernetes.io/guides/ introduction/ Combine the Kustomize/Kubectl with Skaffold - Update Skaffold Config CRD definition to use kustomize in the
 - deploy property, and added profiles propertyRun `skaffold dev --port-forward` to deploy without overrides
 - Nan skarrola dev port forward to deploy without overrides
 - Run `skaffold dev --port-forward -p qa` to deploy with `profile`.
 - Create configmap for spring framework using Kustomize
 - Create `kustomize/base/application.yaml`: similar to application.properties file in Spring resources

```
logging:
    level:
        org:
        springframework: INFO

- Update `kustomize/base/kustomization.yaml`:
    apiVersion: kustomize.config.k8s.io/v1beta1
    kind: Kustomization
    resources:
    - service.yaml
    - deployment.yaml
    - ingress.yaml
    configMapGenerator:
    - name: k8s-demo-app-config
        files:
        - application.yaml
```