ENV Variables in kubernetes

How to Set environment Variables in K8S

```
        name      value
docker run -e APP_COLOR=pink simple-webapp-color
```

⇒ Given a pod-definition file which uses the "same image" as the docker Command

To Set an environment Variable

⇒ Use the ENV property

⇒ ENV is an array, so every item under the ENV property starts with an hyphen (-) indicating an item in the array

⇒ Each item has a "name" & a "value" property

⇒ The name is the name of the environment Variable made available with the Container & the value is its "value". The below manifest file is about configuring env-Variable in pod-definition file

pod-definition.yaml

```
apiVersion: V1
kend: Pod
metadata:
    name: Simple-webapp-color

spec:
    Containers:
    - name: Simple-webapp-color
      image: Simple-webapp.color
      ports:
        - ContainerPort: 8080

      env:
        - name: APP_COLOR    # name of the
                             # environment Variable
          value: pink        # value of the environment
                             # Variable
```

This is the direct way of specifying the environment Variable using the plain key value pair format

ENV Value Types

1) Plain Key Value

```
env:
   - name: APP_COLOR
     value: pink
```

2) ConfigMap

```
env:
   - name: APP_COLOR
   - valueFrom:
        ConfigMapKeyRef:
```

3) Secrets

```
env:
   - name: APP_COLOR
     valueFrom:
        Secret key Ref:
```

The difference is that instead of specifying value, we say "value from" & then a specification of config map or secret