ENV Variables in Kubernetes

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

pod-definition.yaml

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: simple-webapp-color
spec:
  containers:
  - name: simple-webapp-color
    image: simple-webapp-color
    ports:
      - containerPort: 8080

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

ENV Value Types

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

(1) Plain Key Value

```yaml
env:
  - name: APP_COLOR
    valueFrom:
        configMapKeyRef:
```

(2) ConfigMap

```yaml
env:
  - name: APP_COLOR
    valueFrom:
        secretKeyRef:
```

(3) Secrets

Create ConfigMaps

ConfigMap

```
APP_COLOR: blue
APP_MODE: prod
```

Imperative

```
kubectl create configmap
    <config-name> --from-literal=<key>=<value>
```

```
kubectl create configmap \
    app-config --from-literal=APP_COLOR=blue \
        --from-literal=APP_MOD=prod
```

```
kubectl create configmap
    <config-name> --from-file=<path-to-file>
```

```
kubectl create configmap \
    app-config --from-file=app_config.properties
```

1

Create ConfigMap

Create ConfigMaps

ConfigMap

```
APP_COLOR: blue
APP_MODE: prod
```

Declarative

```
kubectl create –f
```

config-map.yaml

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: app-config
data:
  APP_COLOR: blue
  APP_MODE: prod
```

```
kubectl create –f config-map.yaml
```

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Create ConfigMap

app-config

```
APP_COLOR: blue
APP_MODE: prod
```

mysql-config

```
port: 3306
max_allowed_packet: 128M
```

redis-config

```
port: 6379
rdb-compression: yes
```
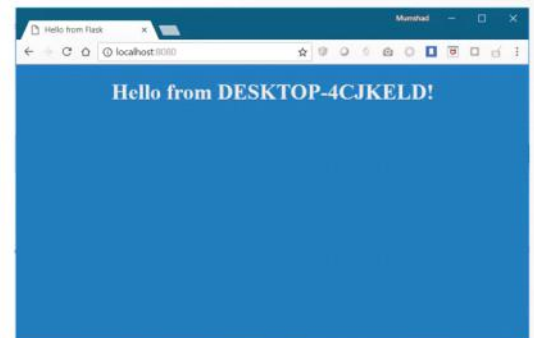
ConfigMap in Pods

pod-definition.yaml

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: simple-webapp-color
  labels:
    name: simple-webapp-color
spec:
  containers:
  - name: simple-webapp-color
    image: simple-webapp-color
    ports:
      - containerPort: 8080
    envFrom:
      - configMapRef:
          name: app-config
```

config-map.yaml

```yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: app-config
data:
  APP_COLOR: blue
  APP_MODE: prod
```

Hello from DESKTOP-4CJKELD!

```
kubectl create -f pod-definition.yaml
```

ConfigMap in Pods

```yaml
envFrom:
  - configMapRef:
      name: app-config
```
ENV

```yaml
env:
  - name: APP_COLOR
    valueFrom:
      configMapKeyRef:
        name: app-config
        key: APP_COLOR
```
SINGLE ENV

```yaml
volumes:
- name: app-config-volume
  configMap:
    name: app-config
```
VOLUME