Problems with Environment Variables

pod.yaml

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: env-var
  labels:
    purpose: demonstrate-env-var
spec:
  containers:
  - name: env-var-container
    image: wordpress
    env:
      - name: WORDPRESS_VERSION
        value: "5.2.2"
      - name: WORDPRESS_USER
        value: "ubuntu"
```

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: env-var
  labels:
    purpose: demonstrate-env-var
spec:
  containers:
  - name: env-var-container
    image: wordpress
    env:
      - name: WORDPRESS_VERSION
        value: "5.2.2"
      - name: WORDPRESS_USER
        value: "ubuntu"
```

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: env-var
  labels:
    purpose: demonstrate-env-var
spec:
  containers:
  - name: env-var-container
    image: wordpress
    env:
      - name: WORDPRESS_VERSION
        value: "5.2.2"
      - name: WORDPRESS_USER
        value: "ubuntu"
```

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: env-var
  labels:
    purpose: demonstrate-env-var
spec:
  containers:
  - name: env-var-container
    image: wordpress
    env:
      - name: WORDPRESS_VERSION
        value: "5.2.2"
      - name: WORDPRESS_USER
        value: "ubuntu"
```

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: env-var
  labels:
    purpose: demonstrate-env-var
spec:
  containers:
  - name: env-var-container
    image: wordpress
    env:
      - name: WORDPRESS_VERSION
        value: "5.2.2"
      - name: WORDPRESS_USER
        value: "ubuntu"
```

ConfigMaps

A ConfigMap is an API object used to store non-confidential data in key-value pairs.

```
apiVersion: v1
kind: Pod
metadata:
  name: env-var
  labels:
    purpose: demonstrate-env-var
spec:
  containers:
  - name: env-var-container
    image: wordpress
```

ConfigMap

VERSION: "5.2.2"
USER: "ubuntu"
COLOR: "red"

ConfigMap

VERSION: "5.2.2"
USER: "ubuntu"
COLOR: "red"

```
apiVersion: v1
kind: Pod
metadata:
  name: env-var
  labels:
    purpose: demonstrate-env-var
spec:
  containers:
  - name: env-var-container
    image: wordpress
```

ConfigMap

```
apiVersion: v1
kind: Pod
metadata:
  name: env-var
  labels:
    purpose: demonstrate-env-var
spec:
  containers:
  - name: env-var-container
    image: wordpress
```
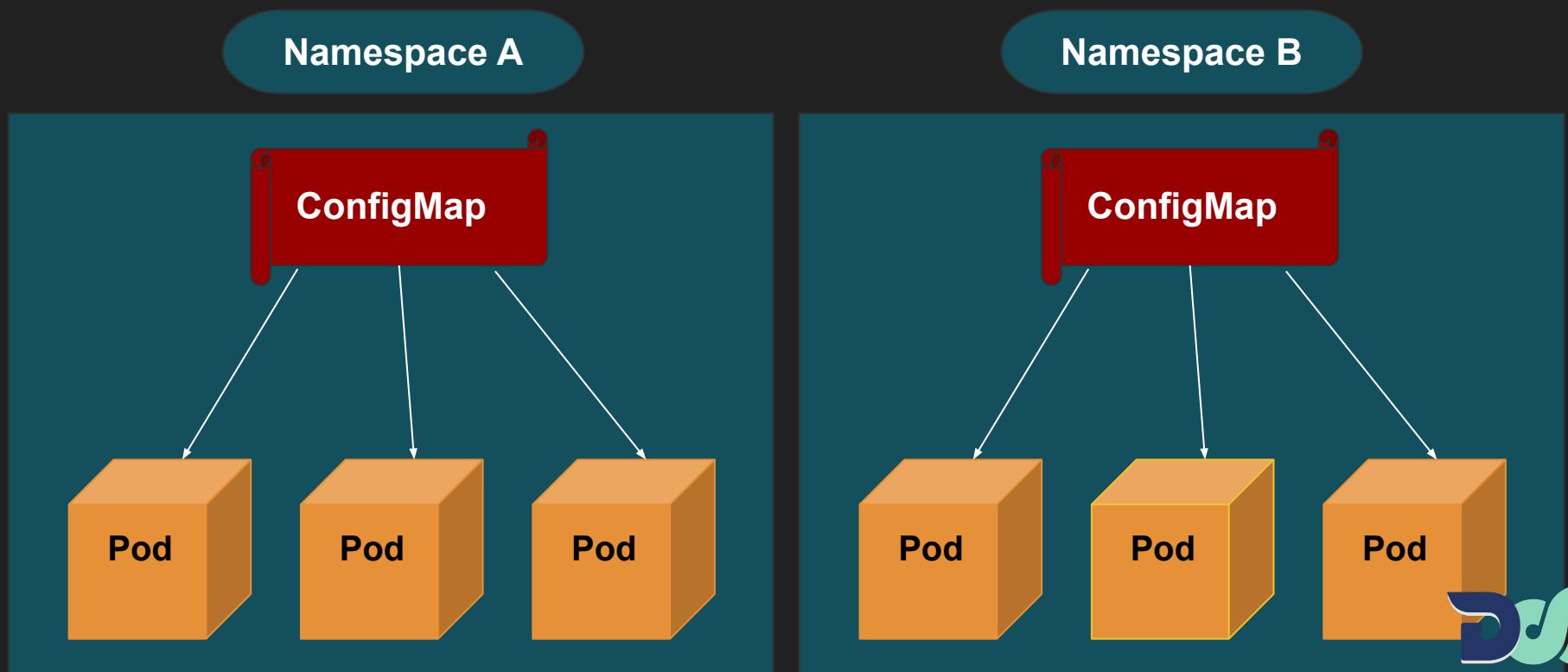
ConfigMap

Scope of the configmap is only to the namespace.

ConfigMap Creation

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

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

03 kubectl create configmap
<name> --from-file=<file-name>

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: my-configmap
data:
  wordpress_version: "5.2.2"
  wordpress_user: "ubuntu"
```

Configmap in Pods

my-configmap

wordpress_version="5.2.2"
wordpress_user="ubuntu"

```
apiVersion: v1
kind: Pod
metadata:
  name: configmap-demo
spec:
  containers:
  - name: demo-container
    image: wordpress

    envFrom:
      - configMapRef:
          name: my-configmap
```

```
apiVersion: v1
kind: Pod
metadata:
  name: configmap-demo
spec:
  containers:
  - name: demo-container
    image: wordpress

    env:
      - name: VERSION
        valueFrom:
          configMapKeyRef:
            name: my-configmap
            key: wordpress_version
```

```
apiVersion: v1
kind: Pod
metadata:
  name: configmap-demo
spec:
  containers:
  - name: demo-container
    image: wordpress
    volumeMounts:
      - name: config
        mountPath: /etc/config
  volumes:
  - name: config
    configMap:
      name: configmap-...
```