

## Define a ConfigMaps and access it as a environment variable in a POD.

---

#Define a ConfigMap

```
apiVersion: v1
kind: ConfigMap
metadata:
  creationTimestamp: 2016-02-18T19:14:38Z
  name: special-config
  namespace: default
  resourceVersion: "651"
  uid: dadce046-d673-11e5-8cd0-68f728db1985
data:
  special.how: very
  special.type: charm
```

---

# accessing configMap key-value in a POD

```
apiVersion: v1
kind: Pod
metadata:
  name: dapi-test-pod
spec:
  containers:
    - name: test-container
      image: k8s.gcr.io/busybox
      command: [ "/bin/sh", "-c", "env" ]
      env:
        # Define the environment variable
        - name: SPECIAL_LEVEL_KEY
          valueFrom:
            configMapKeyRef:
              # The ConfigMap containing the value you want to assign to SPECIAL_LEVEL_KEY
              name: special-config
              # Specify the key associated with the value
              key: special.how
      restartPolicy: Never
```

---

# Accessing Environment variables in POD

```
apiVersion: v1
kind: Pod
metadata:
  name: print-greeting
spec:
```

## Define a ConfigMaps and access it as a environment variable in a POD.

---

```
containers:
- name: env-print-demo
  image: bash
  env:
  - name: GREETING
    value: "Warm greetings to"
  - name: HONORIFIC
    value: "The Most Honorable"
  - name: NAME
    value: "Kubernetes"
  command: ["echo"]
  args: ["$(GREETING) $(HONORIFIC) $(NAME)"]
```

---

# One more example of accessing env. variable values in POD template

```
apiVersion: v1
kind: Pod
metadata:
  name: dapi-envvars-fieldref
spec:
  containers:
  - name: test-container
    image: k8s.gcr.io/busybox
    command: [ "sh", "-c"]
    args:
    - while true; do
      echo -en '\n';
      printenv MY_NODE_NAME MY_POD_NAME MY_POD_NAMESPACE;
      printenv MY_POD_IP MY_POD_SERVICE_ACCOUNT;
      sleep 10;
    done;
    env:
    - name: MY_NODE_NAME
      valueFrom:
        fieldRef:
          fieldPath: spec.nodeName
    - name: MY_POD_NAME
      valueFrom:
        fieldRef:
          fieldPath: metadata.name
    - name: MY_POD_NAMESPACE
      valueFrom:
        fieldRef:
          fieldPath: metadata.namespace
```

## Define a ConfigMaps and access it as a environment variable in a POD.

---

```
- name: MY_POD_IP
  valueFrom:
    fieldRef:
      fieldPath: status.podIP
- name: MY_POD_SERVICE_ACCOUNT
  valueFrom:
    fieldRef:
      fieldPath: spec.serviceAccountName
restartPolicy: Never
```