DT/NT DT

LESSON: **DevOps**

SUBJECT: Kubernetes (Secrets and ConfigMaps) **BATCH: 149** 01.11.2023















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Why env exist?

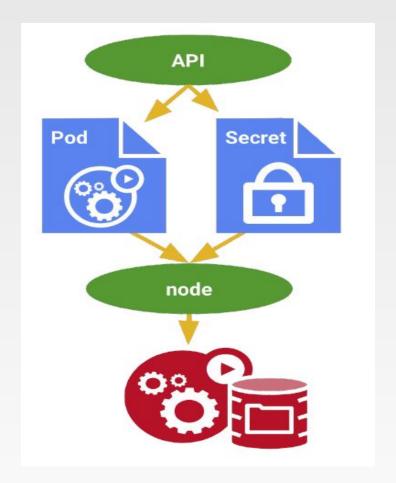
```
API_KEY="XXX_YYY"
    PASSWORD="mypassword"
    HOST="111.121.130.17"
    PORT="3360"
4
    DATABASE="mydb"
    USER="Mickey"
```



Secrets

A **Secret** is an object that contains a small amount of sensitive data such as a password, a token, or a key.

Such information might otherwise be put in a Pod specification or in an image.





Secrets

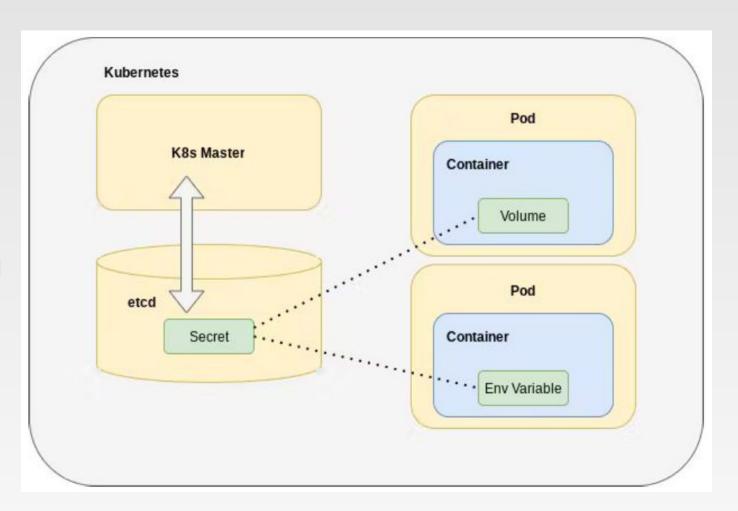
Opaque is the default Secret type if omitted from a Secret configuration file. When you create a Secret using kubectl, you will use the generic subcommand to indicate an Opaque Secret type.

Built-in Type	Usage
Opaque	arbitrary user-defined data
kubernetes.io/service-account-token	ServiceAccount token
kubernetes.io/dockercfg	serialized ~/.dockercfg file
kubernetes.io/dockerconfigjson	serialized ~/.docker/config.json file
kubernetes.io/basic-auth	credentials for basic authentication
kubernetes.io/ssh-auth	credentials for SSH authentication
kubernetes.io/tls	data for a TLS client or server
bootstrap.kubernetes.io/token	bootstrap token data



Secrets

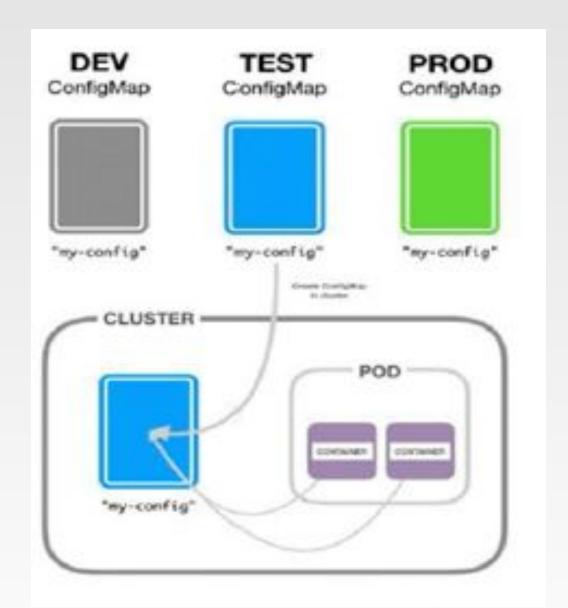
Secrets can be mounted as data volumes or exposed as environment variables to be used by a container in a Pod.





ConfigMaps

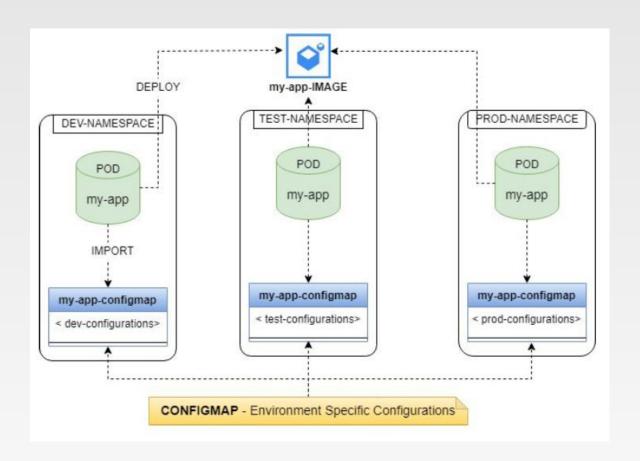
A ConfigMap is an API object used to store non-confidential data in key-value pairs. Pods can consume ConfigMaps as environment variables, command-line arguments, or as configuration files in a volume.



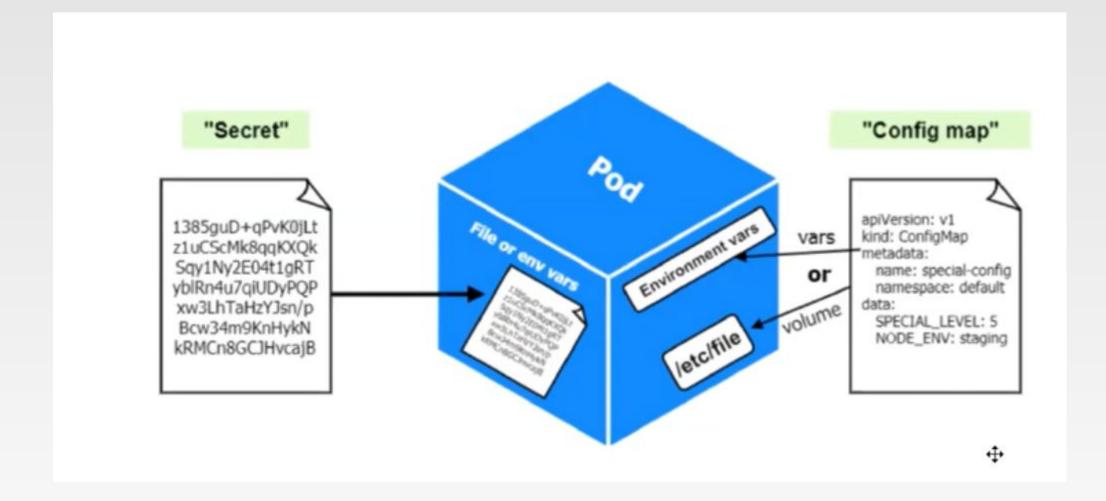


ConfigMaps

A ConfigMap allows you to decouple environment-specific configuration from your container images, so that your applications are easily portable.









env:

- name: APP COLOR

value: pink

env:

- name: APP COLOR

valueFrom:

configMapKeyRef:

env:

- name: APP COLOR

valueFrom:

secretKeyRef:

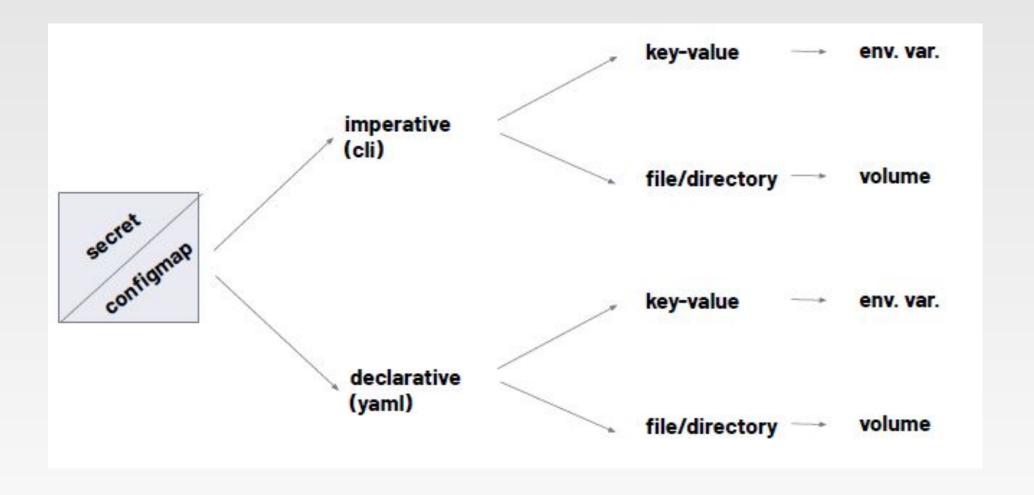




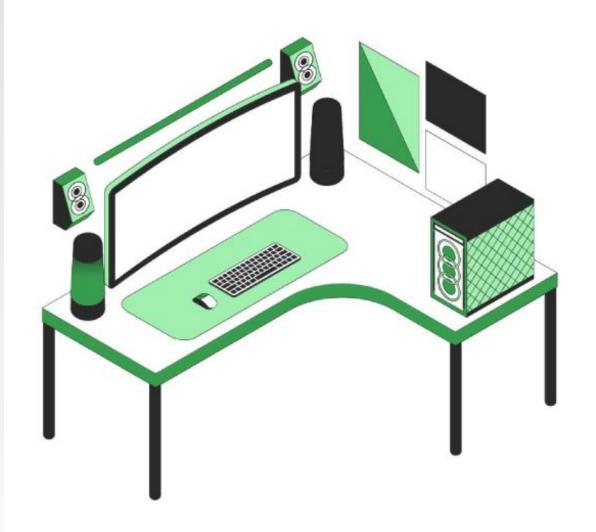




Handson Workflow







Do you have any questions?

Send it to us! We hope you learned something new.