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Secrets



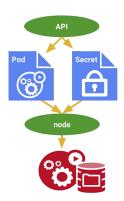
Why env exist?

>>

- 1 API_KEY="XXX_YYY"
- 2 PASSWORD="mypassword"
- 3 H0ST="111.121.130.17"
- 4 PORT="3360"
- 5 DATABASE="mydb"
- 6 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



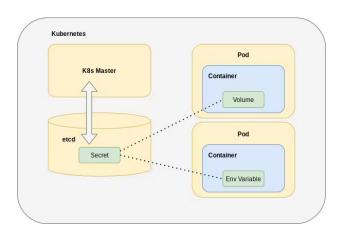
Opaque is the default Secret type if omitted from a Secret configuration file. When you create a Secret using kubectl, you will use the generic subcommand to indicate an Opaque Secret type.

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.



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ConfigMaps

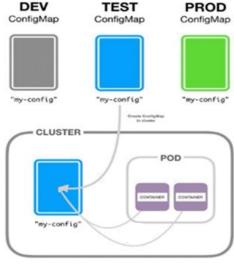


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ConfigMaps

TEST

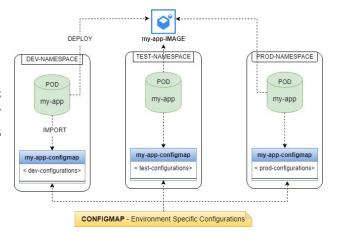
A ConfigMap is an API object used to non-confidential data key-value pairs. Pods can consume ConfigMaps environment as variables, command-line arguments, or as configuration files in a volume.



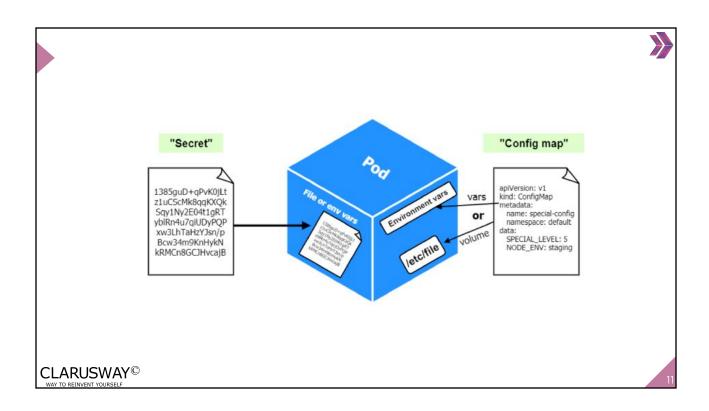
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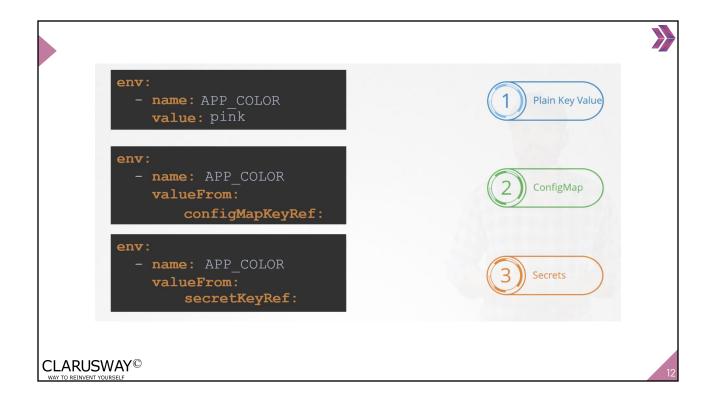
ConfigMaps

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



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ConfigMaps Samples

- > User can create configMap via Literal or from Files.
- > <u>Via File:</u> A path to a directory containing one or more configuration files, indicated using the —from-file flag.

kubectl create configmap [NAME] --from-file [/PATH/TO/FILE.PROPERTIES] --from-file [/PATH/TO/FILE2.PROPERTIES]

> User can also put complete directory, containing multiple files.

kubectl create configmap [NAME] --from-file [/PATH/TO/DIRECTORY]



1.

ConfigMaps Samples



<u>Via Literal Values:</u> To create a ConfigMap from literal values
 —from-literal.

kubectl create configmap literal-data --from-literal key1=value1 --from-literal key2=value2

kubectl create configmap special-config --from-literal=special.how=very
--from-literal=special.type=charm

➤ Get ConfigMap via CLI.

kubectl get configmaps <confifig-map_Name> -o yaml/json

