

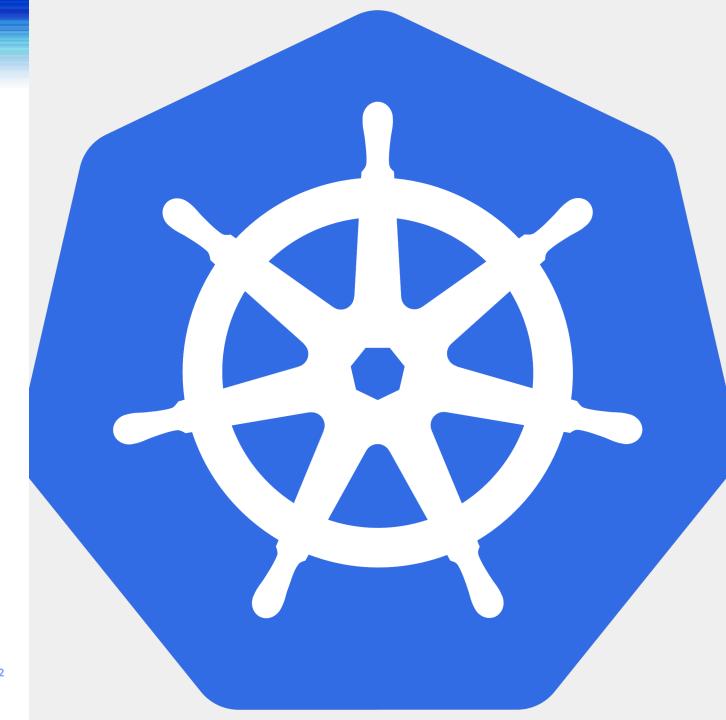


Kubernetes Basics

ConfigMaps & Secrets

Agenda

- 1. What are ConfigMaps?
- 2. ConfigMap Components
- 3. What are Secrets?
- 4. Secrets Components







What are ConfigMaps?





What are ConfigMaps?

- An API Object to store non-confidential configuration in key-value pairs
- Pods can consume ConfigMaps as
 - Environment variables
 - Configuration Files in a Volume
 - Command Line Arguments

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: game-demo
data:
  player_initial_lives: "3"
  ui_properties_file_name: "user-interface.properties"
  game.properties:
    enemy.types=aliens,monsters
    player.maximum-lives=5
  user-interface.properties:
    color.good=purple
    color.bad=yellow
    allow.textmode=true
```



ConfigMap Components





ConfigMap Components

These are the common fields that are needed for a ConfigMap:

- apiVersion will be "apps/v1"
- kind will be "ConfigMap"
- metadata generally a "name" is assigned
- data/binaryData optional fields
 - Accept key-value pairs

These are common data types for a ConfigMap:

- Simple Values:
 - lives.start: 3
- File Like Keys:
 - gear.start: | shield=wood sword=steel





What are Secrets?





What are Secrets?

- An object to store sensitive data
- Similar to ConfigMap but specifically intended to hold confidential data
- Using secrets:
 - Can be mounted as data volumes.
 - Exposed as environment variables





Secret Components





Secret Components

These are the common fields that are needed for a Secret:

- apiVersion will be "apps/v1"
- kind will be "Secrete"
- metadata generally a "name" is assigned
- data/binaryData optional fields
 - Accept key-value pairs

These are the different types of Secrets:

- Opaque
- ServiceAccount token
- dockercfg
- dockerconfigjson
- basic-auth
- ssh-auth
- tls
- bootstrap token data









Thankyou

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