

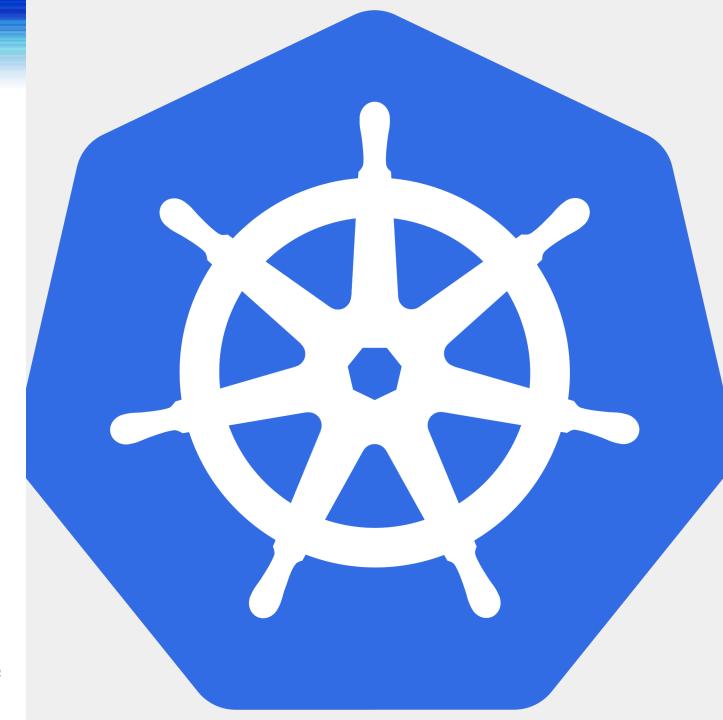


Kubernetes Basics

Kubernetes Objects

Agenda

- 1. Overview
- 2. Names and UIDs
- 3. Labels
- 4. Namespaces
- 5. Annotation







Kubernetes Objects





Kubernetes Objects

- Kubernetes Objects are entities in the Kubernetes cluster
- These collective objects make up the state of the Kubernetes cluster

Kubernetes Objects:

- Names and UIDs
- Labels and Selectors
- Namespaces
- Annotations
- Field Selectors
- Finalizers
- Owners and Dependents



In this section

- Review some of the common core Kubernetes Objects:
 - Names and UIDs
 - Labels
 - Namespaces
 - Annotation





Names and UIDs





Names

- Each resource can have a unique name within the same namespace bound by the type of the resource
- Name is a subsection of the metadata section
- UID or unique identifiers are a Kubernetes generated unique string to identify resources
- Every resourced created through out the life of the cluster will each get a UID

```
apiVersion: v1
kind: Pod
metadata:
 name: nginx
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    - containerPort: 80
```



Labels





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Labels

- Labels are a key/value pair assigned to a resource
- Labels are a subsection of the metadata section
- Designed to allow users to assign meaningful context to resources
- Each key need to be unique for any resource

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx
  labels:
    environment: development
    app: website
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    ports:
    - containerPort: 80
```



Namespaces





Namespaces

- Namespaces are objects that allow for grouping and isolating resources within a Kubernetes cluster
- As mentioned before Names need to be unique within a specific Namespace
- Grouping by Namespaces only applies to objects that can be applied to a namespace





Annotations





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Annotations

- Look somewhat like Labels as they are both key value pairs
- Designed to add non-identifying meta data to objects
- Designed to allow tools and libraries to retrieve this data









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