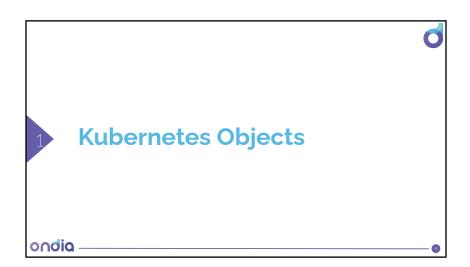
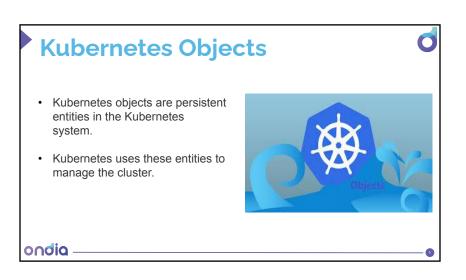


AGENDA

- Kubernetes objects
- ▶ PODs
- ► ReplicaSets
- Deployment
- Namespaces
- Object Model

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PODs

- · Kubernetes doesn't deal with containers directly.
- PODs are Kubernetes objects that encapsulate the containers.
- · Pods are the smallest deployable units of computing that you can create and manage in Kubernetes.



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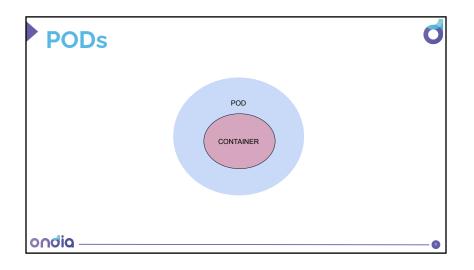
PODs

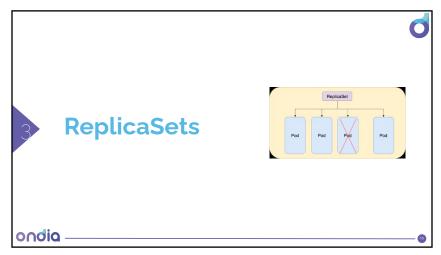
- A POD can have multiple containers.
- Sometimes an application need a helper container, such as logging, monitoring, etc.
- These helper containers should coexist with your application container.

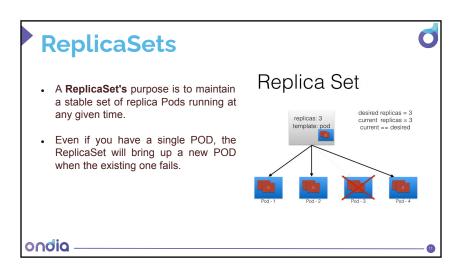


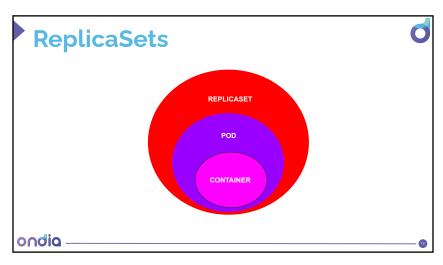
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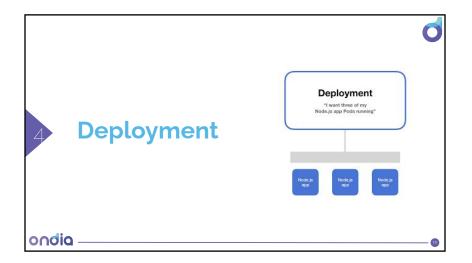


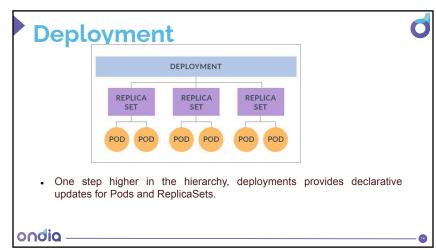


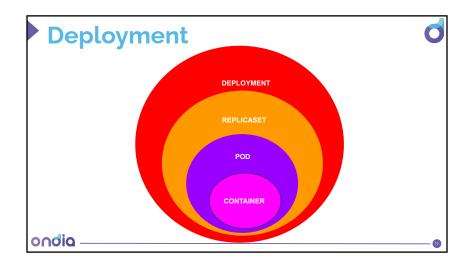




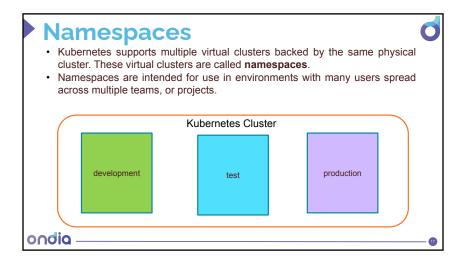




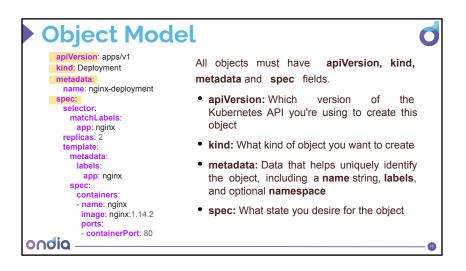


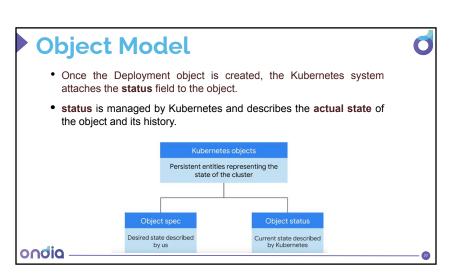


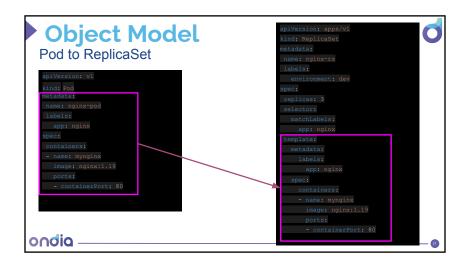
















Labels

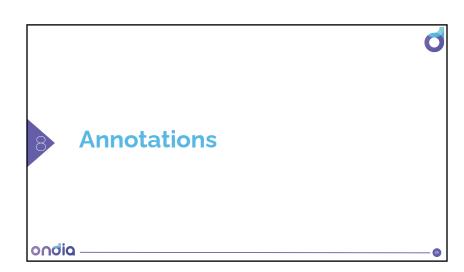
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- Labels are key/value pairs that are attached to objects, such as pods.
- Labels can be attached to objects at creation time and subsequently added and modified at any time.
- Each object can have a set of key/value labels defined.
- Example labels:
- "environment" : "dev", "environment" : "qa", "environment" : "production"
- "tier": "frontend", "tier": "backend", "tier": "cache"

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Labels Selectors

- Unlike **names and UIDs**, labels do not provide uniqueness. In general, we expect many objects to carry the same label(s).
- The Selector matches the label. Labels and selectors are required to make connections between some objects.

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Annotations

- You can use Kubernetes annotations to attach arbitrary non-identifying metadata to objects.
- Clients such as tools and libraries can retrieve this metadata.
- You can use either labels or annotations to attach metadata to Kubernetes objects. Labels can be used to select objects and to find collections of objects that satisfy certain conditions. In contrast, annotations are not used to identify and select objects.

