RANCHER
BY SUSE

RANCHER ACADEMY

Kubernetes Basics

Pods

Agenda

1. What are Pods

2. Pod Architecture

3. Pod Components

What are Pods

What are Pods

- They are the smallest deployable unit of computing you can create in Kubernetes

- Designed to run one or more containers

- Sharing resources within the pod itself

- Deployed to run on nodes within the cluster

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: pod-1
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    ports:
    - containerPort: 80
```

Pod Architecture

Pod Architecture

- Can run one or more containers

- Sharing all resources within the Pod

- Deployed to a Node

- Where a Node can run multiple Pods
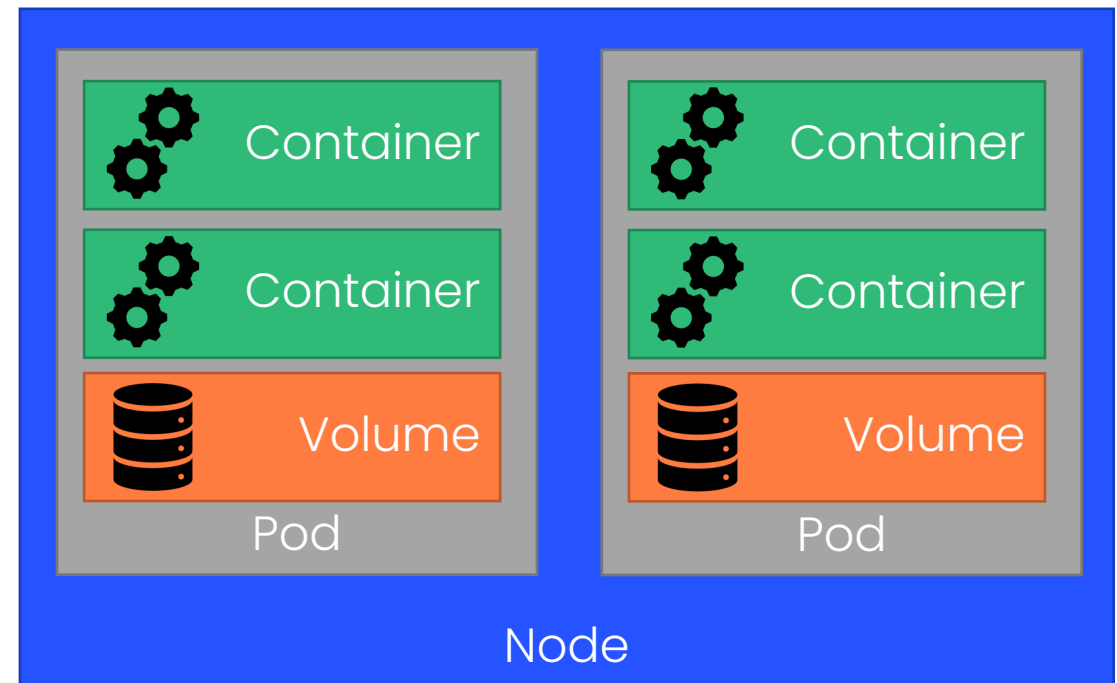
Pod Components

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

— **apiVersion** – will be "v1"

— **kind** – will be "Pod"

— **metadata** – generally a "name" is assigned

— **spec** - this will have the specifications that make up a particular pod
  - **containers** – these fields make up the components needed for a container

```
apiVersion: v1
kind: Pod
metadata:
  name: pod-1
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    ports:
    - containerPort: 80
```

Thank you

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