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Kubernetes - Create two containers in one pod

Asked 3 years, 9 months ago Modified 3 years, 9 months ago Viewed 4k times



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I'm developing an application that consists of two containers. I want to deploy them in Kubernetes into one Pod, since I want the two services to be behind one IP address. However, I'm having a hard time trying to connect the kubernetes Services with the containers. How could I write a `deployment.yaml` file, so that when the user calls a `x.x.x.x:port1`, the request is forwarded to the first container, and when the `x.x.x.x:port2` is called, the request is forwarded to the second container. How could I specify the Services?

Here's what I have until now:

```
apiVersion:v1
kind: Pod
metadata:
  name: my_app
spec:
  containers:
    - name: first_container
      image: first_image

    - name: second_container
      image: second_image
---
```

```
apiVersion: v1
kind: Service
...
```

Thank you in advance!

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asked Oct 8, 2018 at 14:53



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In your containers section you need to define a containerPort for each:

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```
containers:
- name: first_container
  image: first_image
  ports:
  - containerPort: port1
- name: second_container
  image: second_image
  ports:
  - containerPort: port2
```

And then in the ports section of the service definition you need to point the targetPorts of the service at those ports like in <https://stackoverflow.com/a/42272547/9705485>

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answered Oct 8, 2018 at 15:21



Ryan Dawson

10.9k 5 36 59

- 3 According to the K8S documentation here for the container ports - [kubernetes.io/docs/reference/generated/kubernetes-api/v1.12/...](https://kubernetes.io/docs/reference/generated/kubernetes-api/v1.12/) - Exposing a port here gives the system additional information about the network connections a container uses, but is primarily informational. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. - Praveen Sripati Oct 8, 2018 at 16:38

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