

Ephemeral Environments in Kubernetes

Building & Using

whoami

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- [kubernetes.slack.com:](https://kubernetes.slack.com/)
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- GitHub:
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Agenda

- Creating a dev env
 - Demo
- Making the most of the dev env
 - Demo

Creating: *The Why*

- micro-service dependencies
- K8s artifacts
- smaller footprint
- demo environment
- self contained
- debugging

Creating: The How

-  Armador

<https://github.com/travelaudience/armador>

-  Garden.io

<https://github.com/garden-io/garden>

-  Acyl

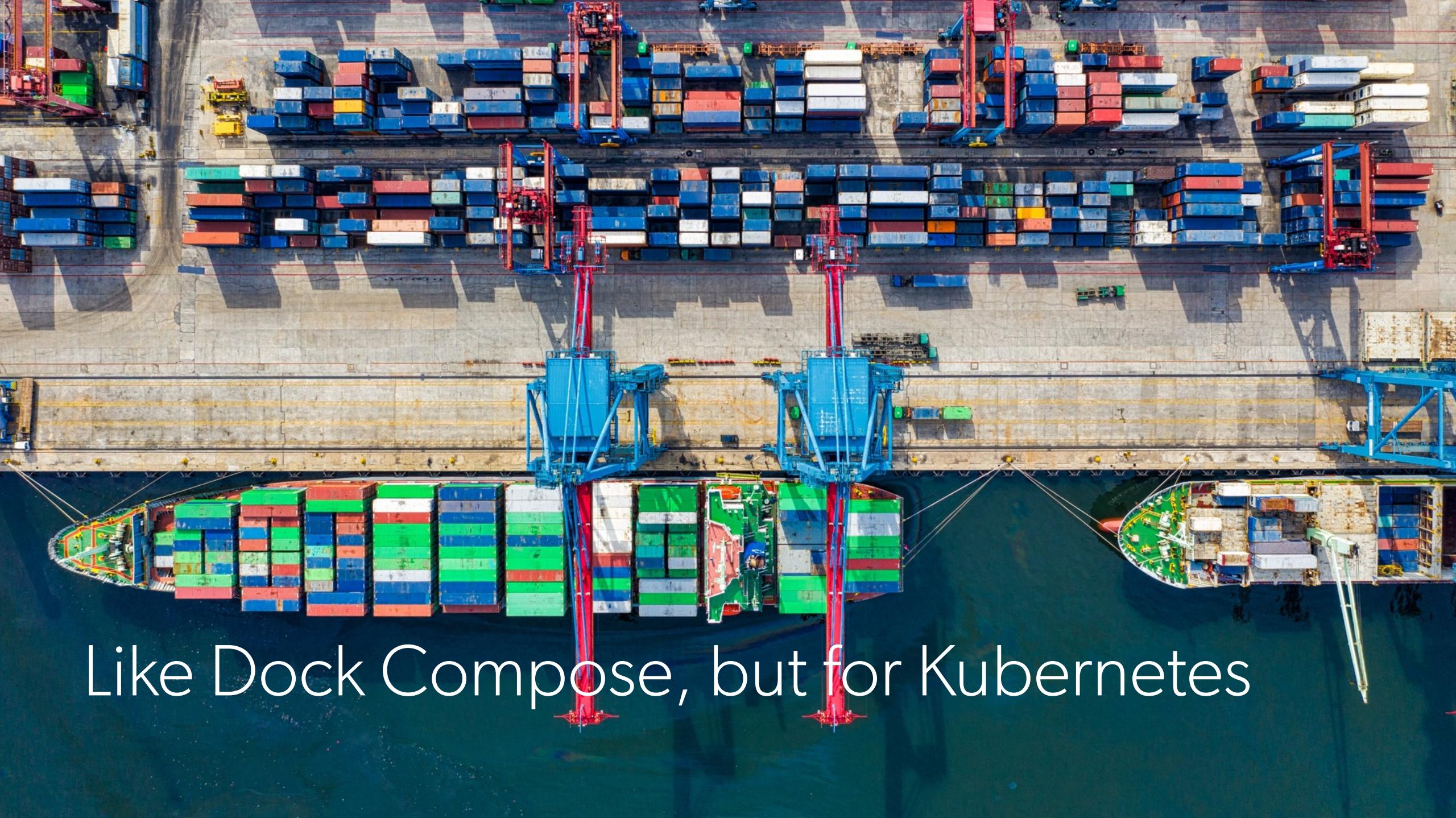
<https://github.com/dollarshaveclub/acyl>





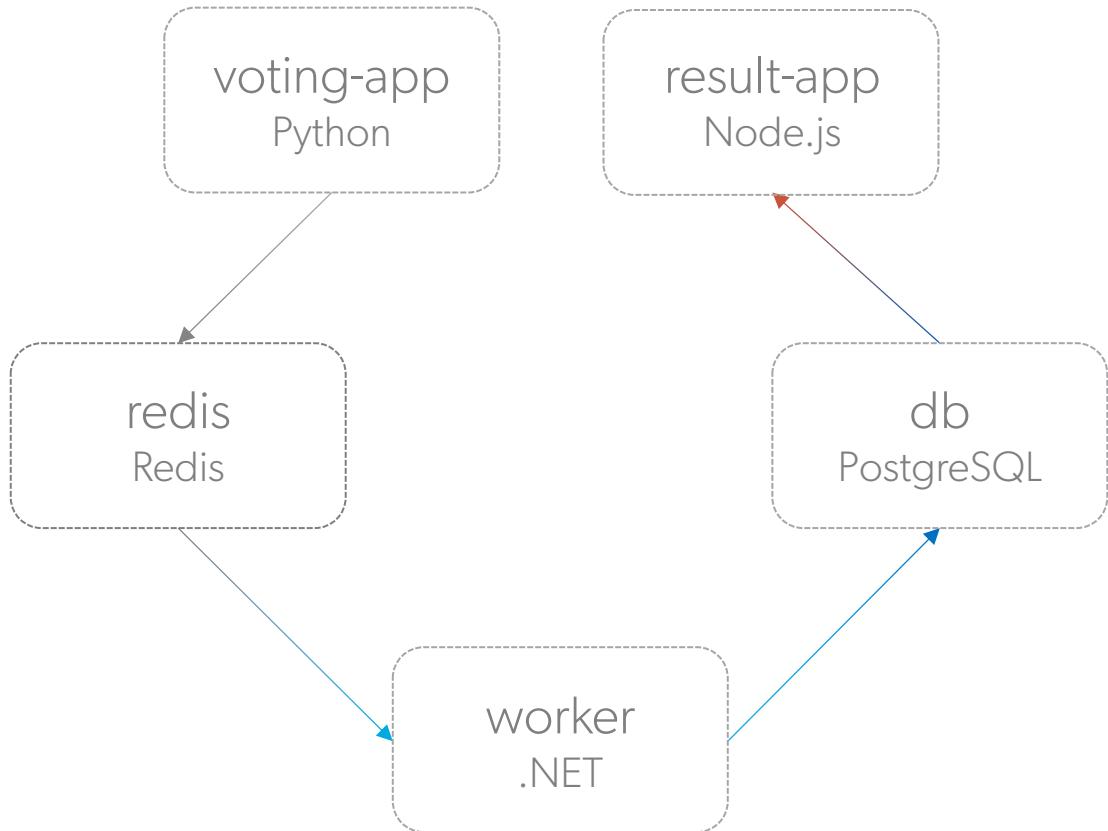
Creating: **ARMADOR**

<https://github.com/travelaudience/armador>



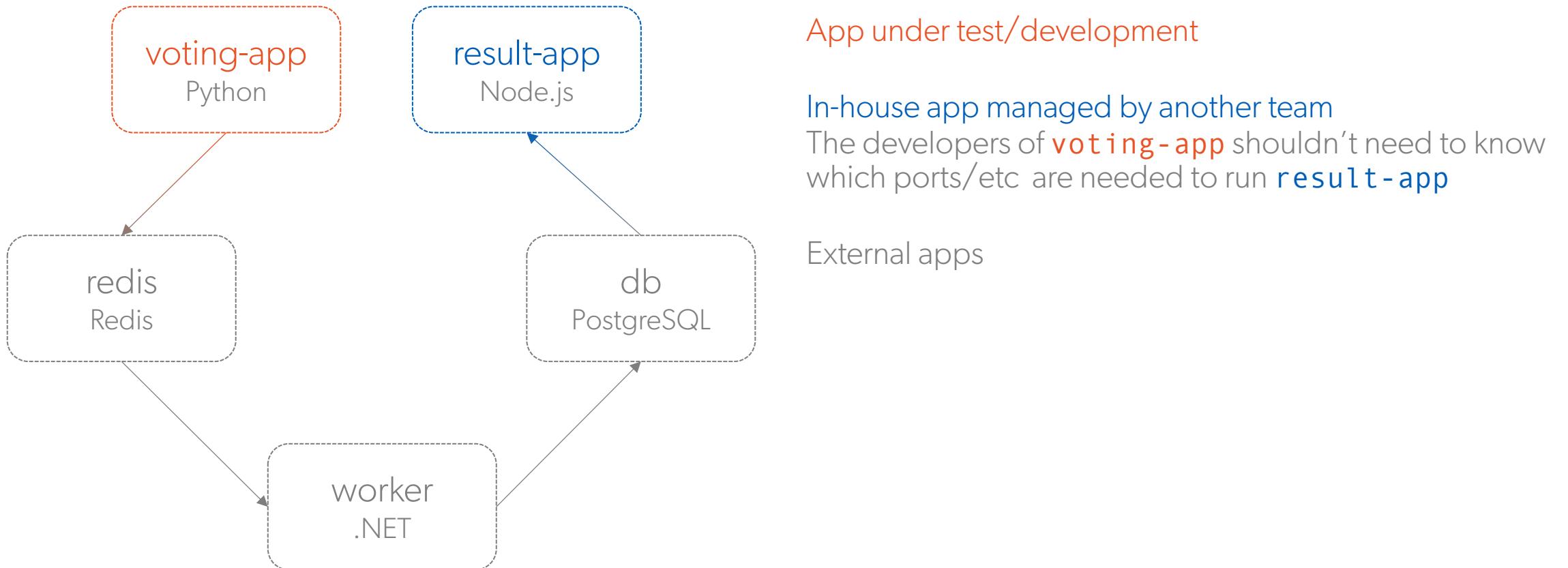
Like Dock Compose, but for Kubernetes

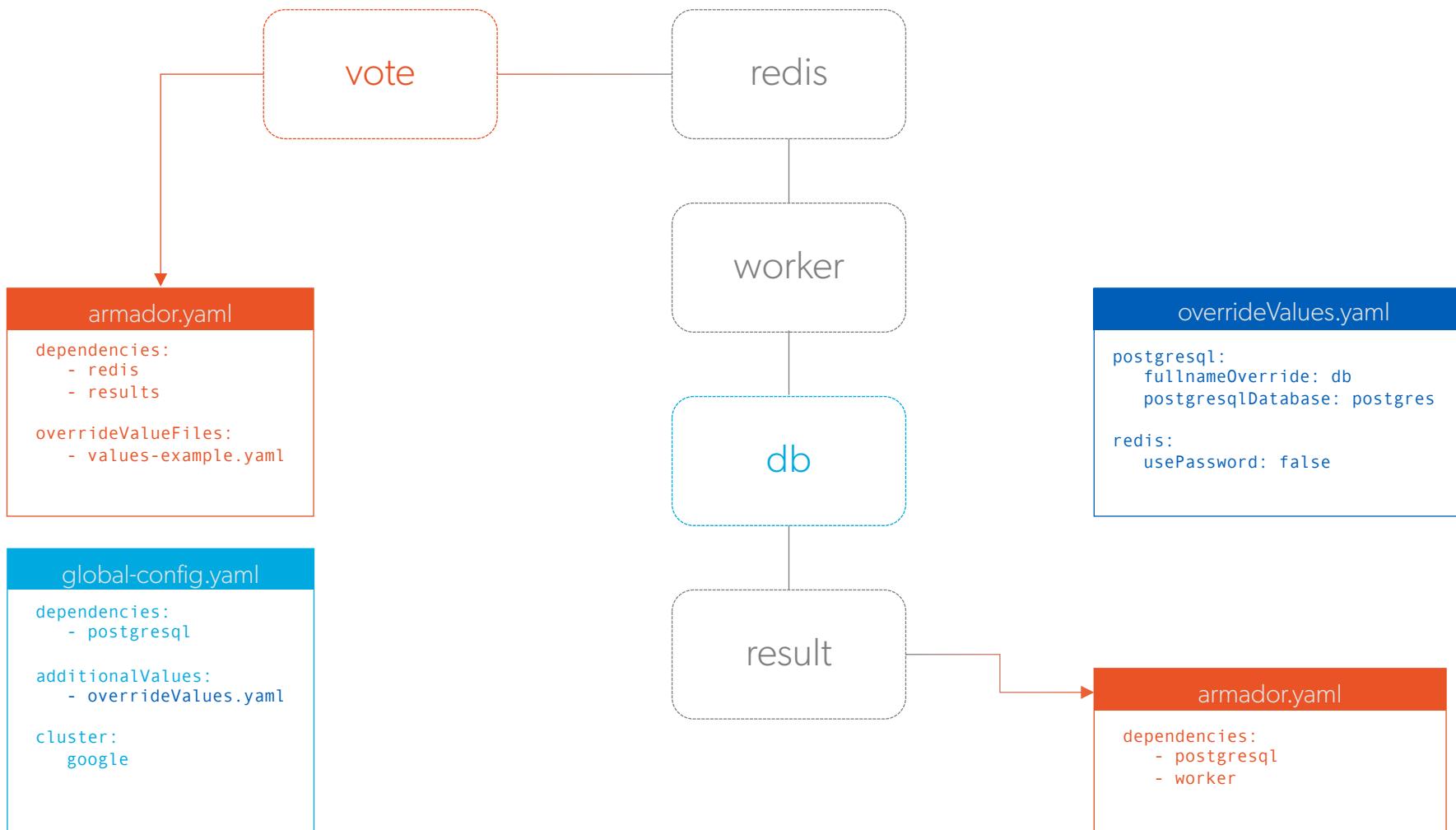
github.com/dockersamples/example-voting-app



```
services:  
  vote:  
    build: ./vote  
    command: python app.py  
    volumes:  
      - ./vote:/app  
    ports:  
      - "5000:80"  
    networks:  
      - front-tier  
      - back-tier  
  
  result:  
    build: ./result  
    command: nodemon server.js  
    volumes:  
      - ./result:/app  
    ports:  
      - "5001:80"  
      - "5858:5858"  
  
  worker:  
    build:  
      context: ./worker  
    depends_on:  
      - "redis"  
      - "db"  
  
  redis:  
    image: redis:alpine  
    container_name: redis  
    ports: ["6379"]  
    networks:  
      - back-tier  
  
  db:  
    image: postgres:9.4  
    container_name: db  
    volumes:  
      - "db-data:/var/lib/postgresql/data"
```

github.com/dockersamples/example-voting-app





Demo Armador



Using: The How

– Skaffold

<https://github.com/GoogleContainerTools/skaffold>

– Telepresence

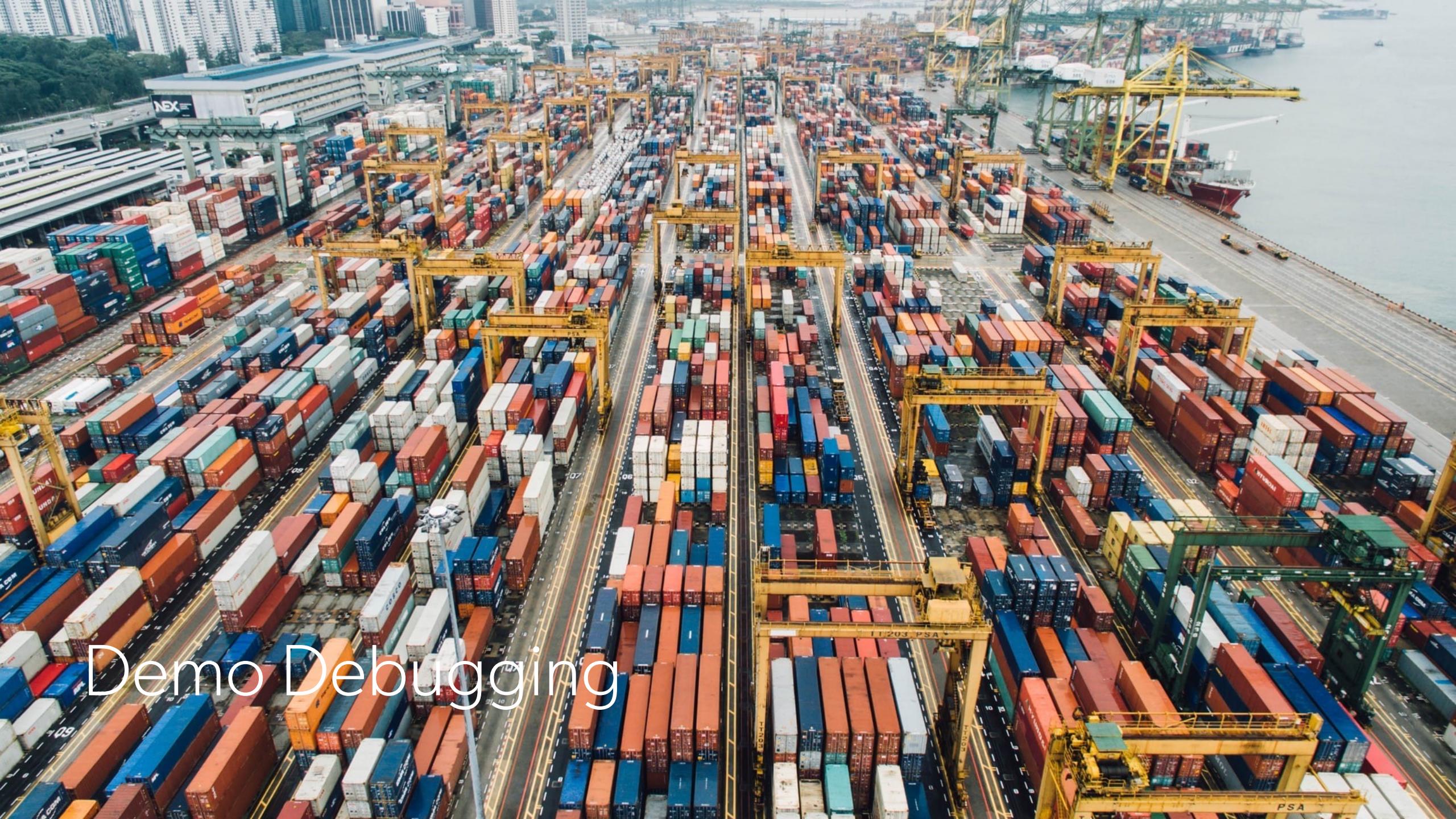
<https://github.com/telepresenceio/telepresence>

– Ksync

<https://github.com/vapor-ware/ksync>

– Squash

<https://github.com/solo-io/squash>



Demo Debugging

References

- Armador blog post:
<https://tech.travelaudience.com/armador-5fab64496e2a>
- Skaffold video
https://www.youtube.com/watch?v=n_HYXfISkwE
- Cloud Code
<https://www.youtube.com/watch?v=Z2fyc3AbfKE>
- This presentation will soon be available as a video
 - <https://skillsmatter.com/conferences/11723-cloudnative-london-2019#skillscasts>

Thank you!