

Developing a CD pipeline with Knative

Andrea Frittoli
Developer Advocate
andrea.frittoli@uk.ibm.com
@blackchip76

DevOps Meetup Singapore

A Bit of History

Knative

- Beginning of 2018...
- Knative:
 - Build
 - Eventing
 - Serving
- Contributors:
 - Google
 - Pivotal
 - IBM
 - RedHat
 - ...and others

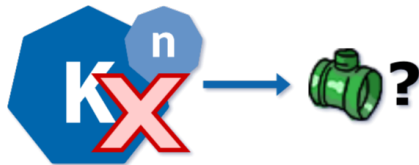


~Sept 2018: Knative Pipelines



~Feb 2019: Tekton Pipelines

- Focus on CI/CD
- Deploy “anywhere”
- Compatible with Knative Build
- *tektoncd/pipeline*
 - Logo TBD
 - Governance WIP
 - Alpha APIs
 - Roadmap WIP



Community

Tekton Pipelines

Intro

CRDs, Reconcile

Steps, Tasks, Pipelines, Params

*Runs, PipelineResources

Inputs & Outputs

DAG and ordering

Entrypoint

Source to Image to Deploy

The Health Application

IBM Cloud

CD Pipeline

Parameters

Using Kaniko

Cluster resource and secrets

Service account and namespace

Tekton and Knative

Kservices and Build

Duck Typing and Tekton

Tekton and CI

Triggering with Eventing

Tekton and Development

Conclusions

Roadmap

References

Q&A