# Developing a CD pipeline with Knative

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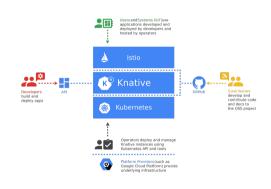
DevOps Meetup Singapore



#### 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

- Valid for Knative. Tekton TBD.
- Steering Committee (SC)
- Technical Oversight Commitee (TOC)
- Various Contribution profiles
- Design, issues: on GitHub
- Communication:
  - Weekly video meetings, recorded, Build WG
  - Asynch: Knative Users / Developers ML
  - Sync: slack.knative.dev

## **Tekton Pipelines**

#### Intro

# The Health Application

#### Inputs, Outputs & DAG

#### Under the Hood

#### **Custom Resources**

## Pods, Entrypoints & Volumes

## Source to Image to Deploy

#### **IBM Cloud**

## CD Pipeline as code

## Using Kaniko

#### Cluster resource and secrets

#### Tekton and Knative

# Pipelines and Knative Build

## CI for OpenStack Health

## CI with Tekton Pipelines

# Asynchronous Pipelines

Triggering and Knative Eventing

## Tekton and Development

#### Conclusions

Shall I use Tekton Pipelines?

## Roadmap

#### References

Q&A