

# Intro to Tekton

# Mission

Industry-standard,  
cloud-native CI/CD  
platform components  
and ecosystem.

What is “cloud native”?

# Cloud Native Computing Foundation (CNCF)

*Microservices in containers*



**Images / Containers**

*Dynamically orchestrated*



**(Often) Kubernetes**

*Optimized resource utilization*

For who(m)?

# Porcelain vs Plumbing

Toilet vs. Plumbing Underneath



# For who(m)?

Engineers building CI/CD systems

Stop reinventing the wheel!

- Scalable
- Serverless
- Cloud Native

Engineers using CI/CD (everyone)


Catalog of reusable components

- Quick assembly
- Tekton conformant systems
  - Interoperability
  - Portability (no lock-in)
- Ecosystem of tools



# Tekton Pipelines

Existing Industry  
standard:  
Container images



Image

Steps:

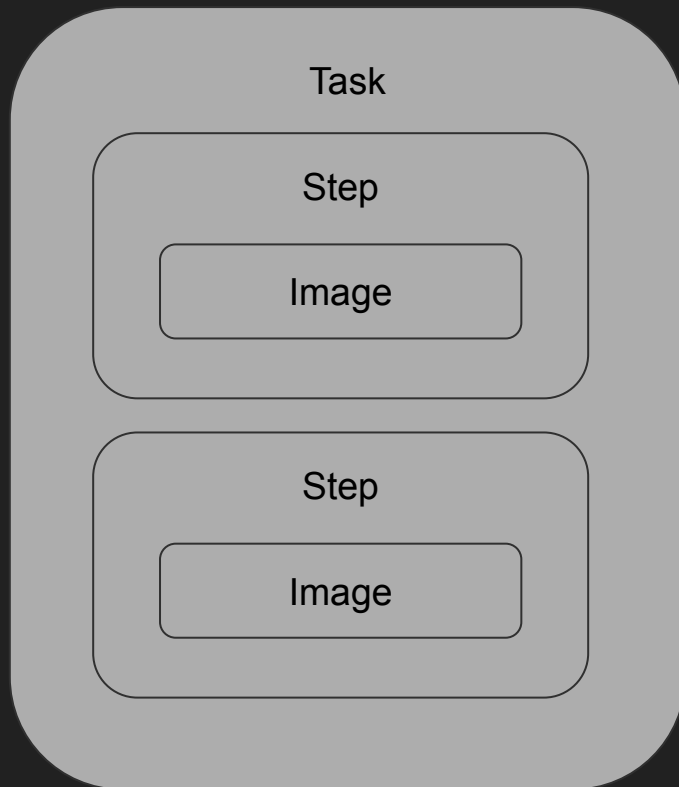
Kubernetes container spec, adds stuff like:

- Environment vars
- Arguments



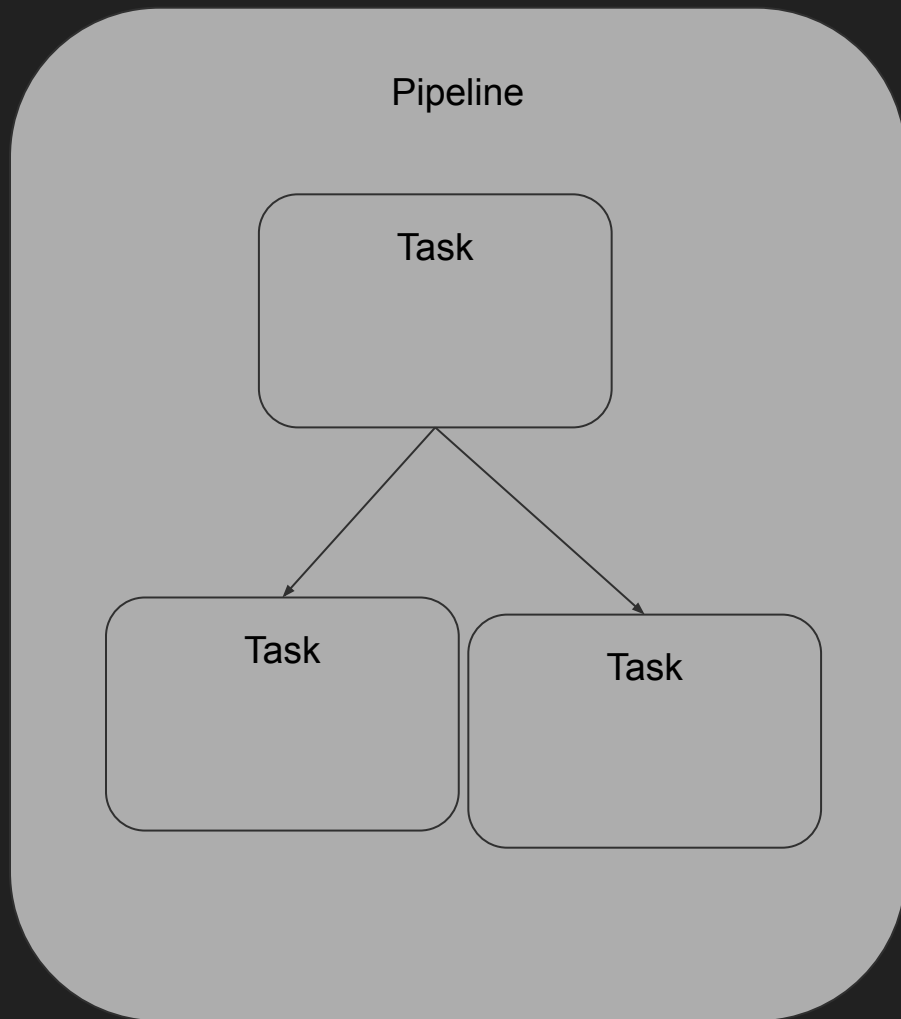
Task, adds:

- Steps in order
- Params
- Workspaces
- Results



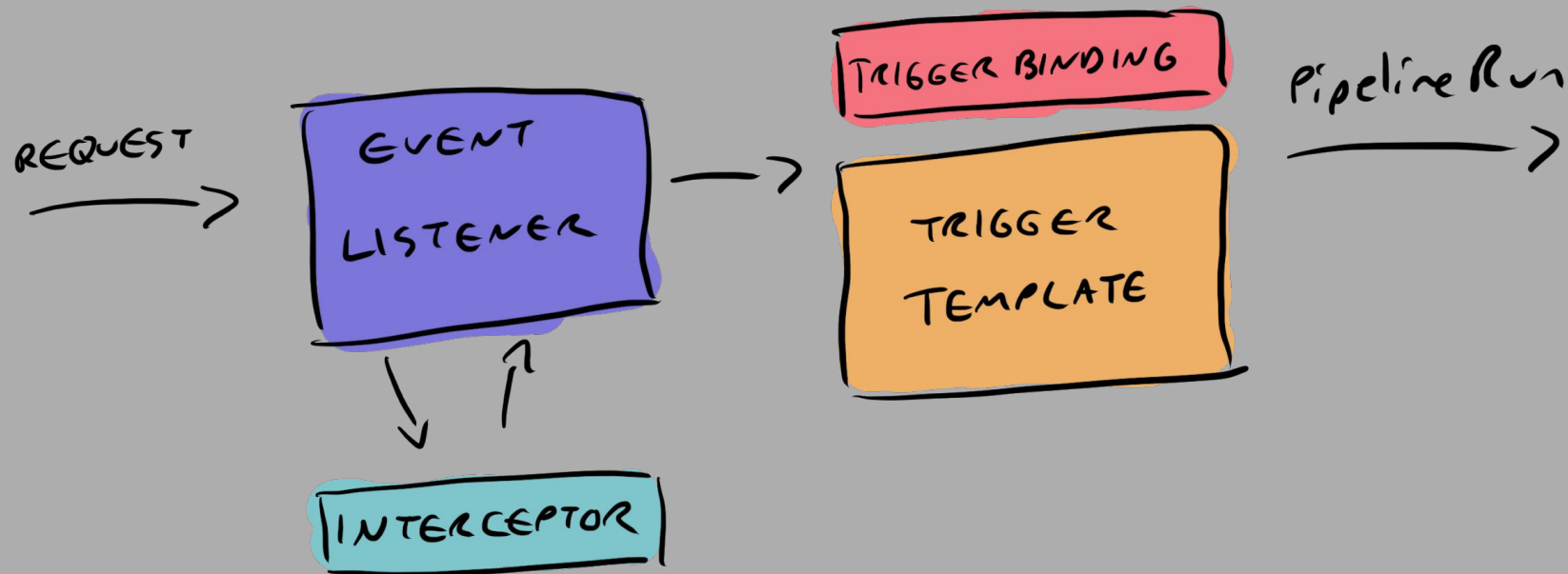
Pipeline, adds:

- Graph
- Inputs + outputs:
  - Workspaces
  - Results -> Params
- Conditions
- On Failure



# Tekton Triggers

# Tekton Triggers Types



# Tekton Catalog



# Tekton Catalog

- Images
- Tasks
- Pipelines
- Conditions
- TriggerBindings
- TriggerTemplates
- Trigger interceptors
- Sandbox + Official
- Well tested
- Well documented
- Supporting the catalog = Tekton conformance
- Versioning + referring to Tasks:
  - taskRef ->
    - OCI artifact
    - Git repo
    - Anything really