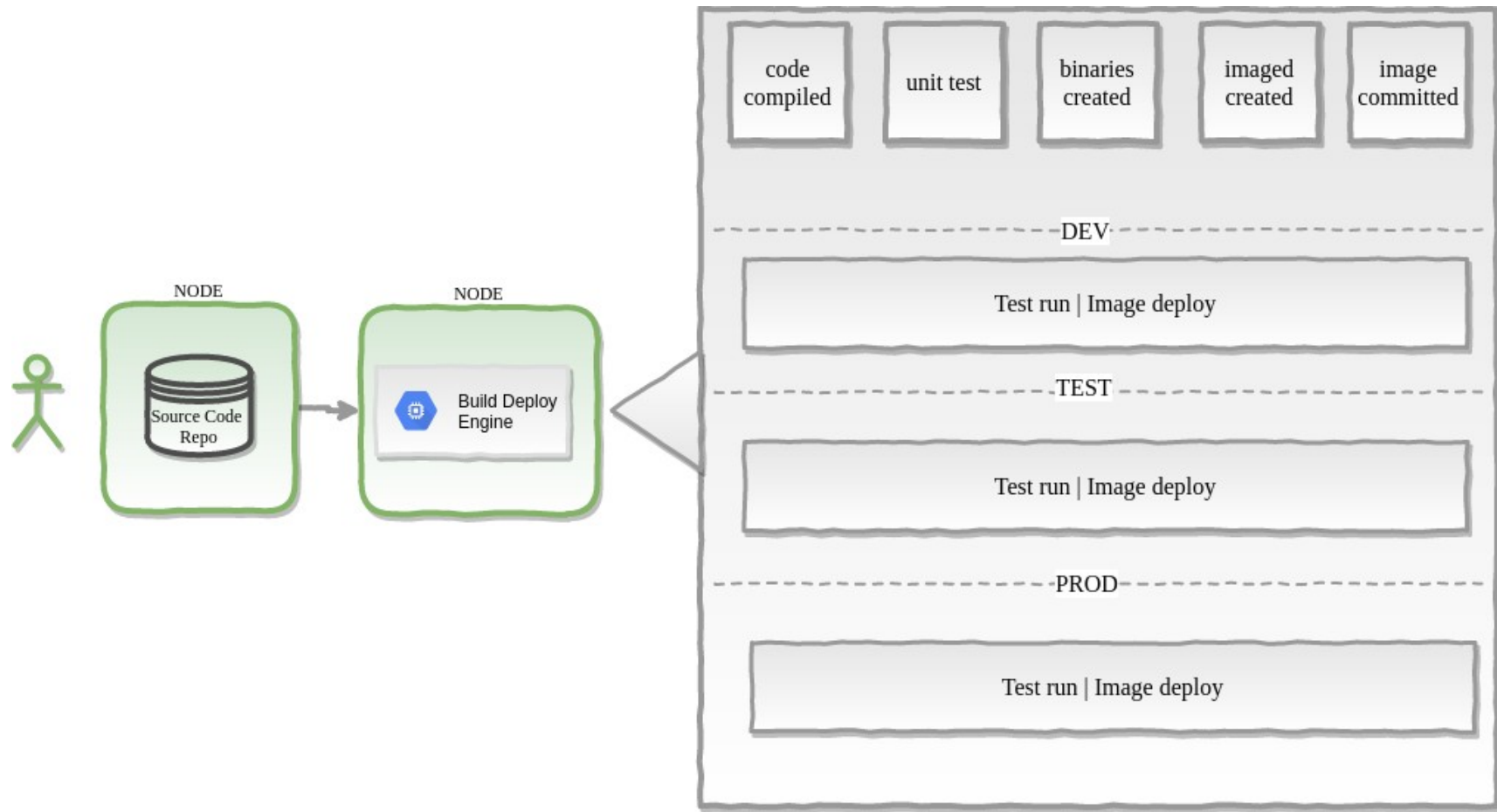# The Pipeline

{ Build | Deploy | Promote }

# Dev-Sec-Ops Pipeline

# Infrastructure-as-Code (IaC)

"Infrastructure as Code (IaC) is the management of infrastructure (networks, virtual machines, load balancers, and connection topology) in a descriptive model, using the same versioning as DevOps team uses for source code."

# K8s IaC Tools Options



https://hasura.io/blog/draft-vs-gitkube-vs-helm-vs-ksonnet-vs-metaparticle-vs-skaffold-f5aa9561f948/

# Kustomize

Simple | Declarative | Template-free | Autogenerated



**File Structure**

```
hello-world/
├───── base
│       ├───── deployment.yaml
│       └───── kustomization.yaml
└───── overlays
        ├───── production
        │       ├───── replica_count.yaml
        │       └───── kustomization.yaml
        └───── staging
                ├───── replica_count.yaml
                └───── kustomization.yaml
```

# Kustomize

## $ kustomize build

```
$ kustomize build -h
Print current configuration per contents of kustomization.yaml

Usage:
  kustomize build [path] [flags]
```

```
$ kustomize build hello-world/overlays/staging/
```

# Kustomize

**Apply** printed configuration

```
$ kustomize build [PATH] | kubectl apply -f -
```

https://speakerdeck.com/spesnova/
introduction-to-kustomize