Deploy Service to Kubernetes with Habitat

GitHub

Habitat Builder

Builder Service

Depot

A registry could be Docker Hub, Azure Container Registry (ACR), Amazon Elastic Container Service (ECS), or a Chart repo.

Image Registry

Image

1 Builder detects that you have committed code to your master branch on Github

2 Builder automatically starts a new build based on the Plan. sh you defined, and publishes your package to Habitat Builder's Depot for safekeeping and sharing

3 Builder exports the package to a container image alone with a generated manifest file or a Helm chart and package that can be used to deploy directly to Kubernetes

4 Builder publishes the container image to a registry.

5 Applications subscribed to the Builder channel with a new version are updated or the running cluster.

Node / Kubelet

Pod

Container

🖼 **APP**

Node / Kubelet

Pod

Container

🖼 **APP**

Container

🖼 **APP**

Pod

Node / Kubelet

Master

Controller manager

Operator

API Server

Scheduler

etcd

The Habitat Operator is a Kubernetes Operator that allows you to automate application behabior on your clusters with Habitat and Kubernetes.