1 DECEMBER 2022

Simplify building applications for Kubernetes

An open source approach for developing apps in Kubernetes.

Agenda

1. Introduction

2. Setting the Context

3. Environment

4. Developing

5. Thank you

Introduction

Well, who am I and why are
we here.

Who am I?

Robert Sirchia

I'm the Head of Community Evangelism at SUSE. I specialize in cloud-native development and cloud operations.

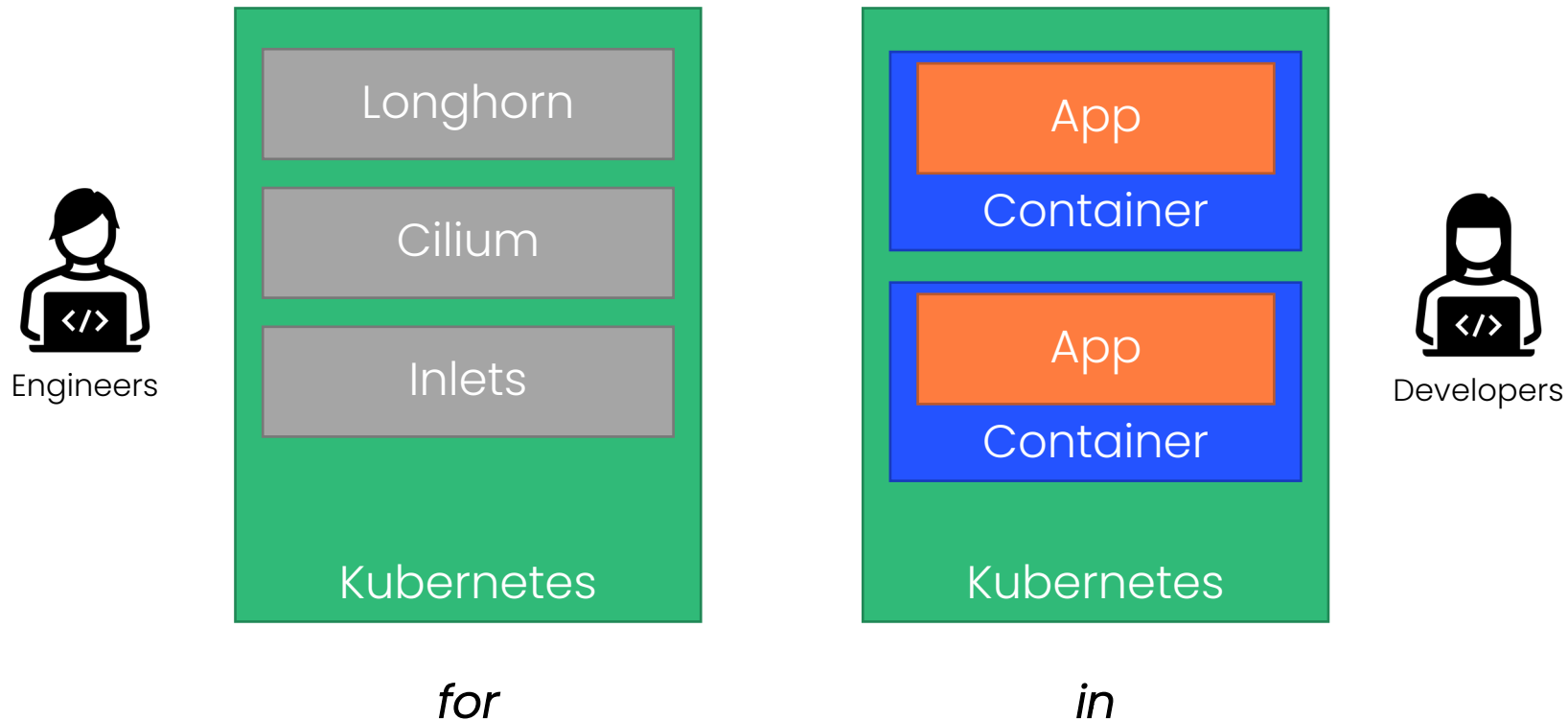I am all about learning and sharing this knowledge with others.

Who I am not...

SrirachaMovie.com

Setting the Context

Build Applications *for* or *in* Kubernetes

Worth denoting the difference.

Engineers

| Longhorn |
| Cilium |
| Inlets |

Kubernetes

for

Developers

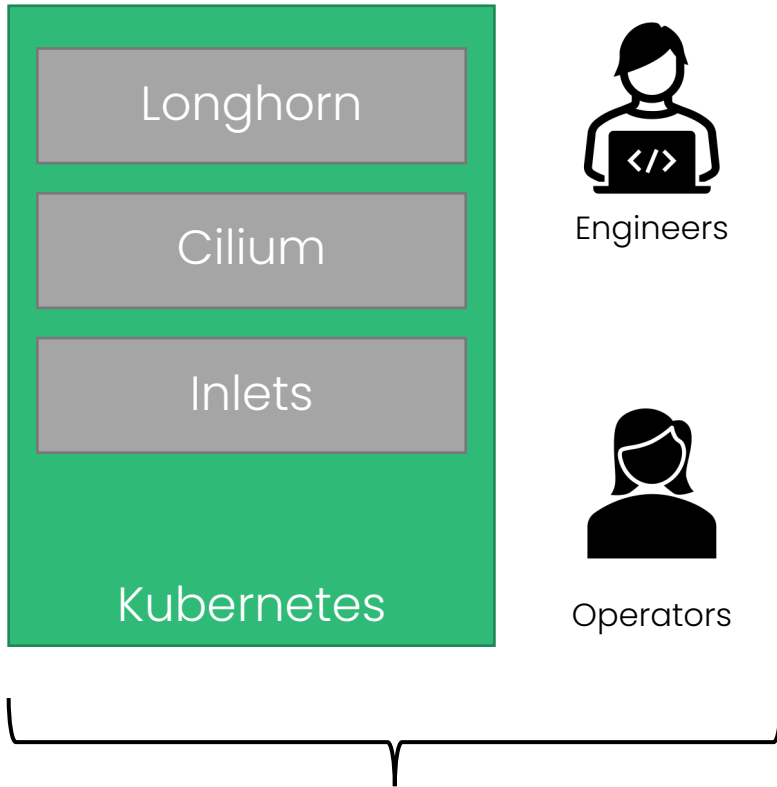| App |
| Container |
| App |
| Container |

Kubernetes

in

Secrete about Kubernetes

Kubernetes is complex.

Hundreds of tools to make it easier.

Thousands of hours of courses.

Kubernetes is still complex.
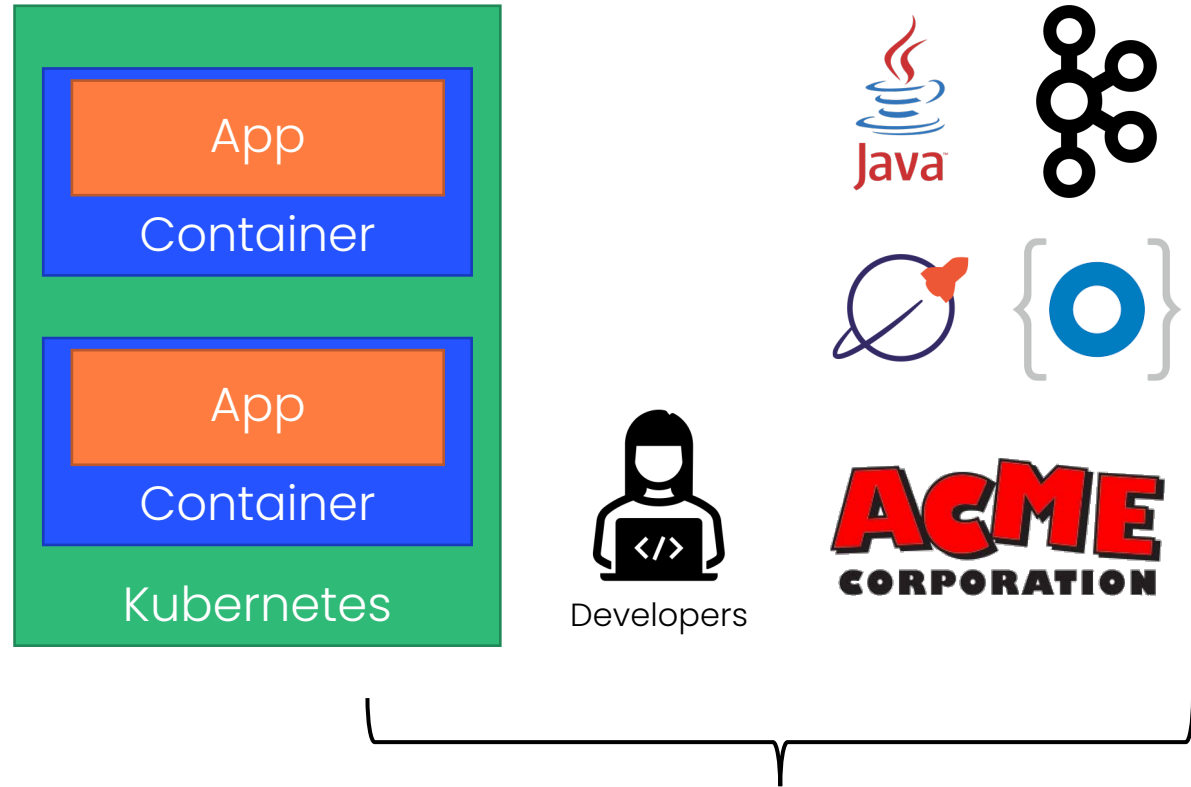
How much should you know?

Longhorn

Cilium

Inlets

Kubernetes

Engineers

Operators

App
Container

App
Container

Kubernetes

Developers

Deep Knowledge

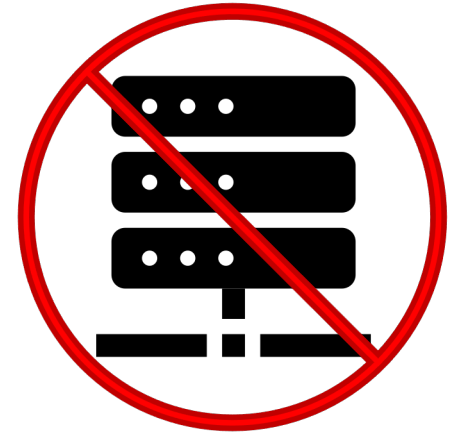Just Enough Knowledge

Environment

Make this as easiest as possible.

Development Environment

Don't use a shared Development Environment unless your code is ready.

Ensure you are not impacting others at all cost.

Local Kubernetes if possible

If possible, use a Kubernetes Desktop environment.

With a ton of features these can take the operational side of Kubernetes. The more time spend on Kubernetes operations is less time developing

Helm

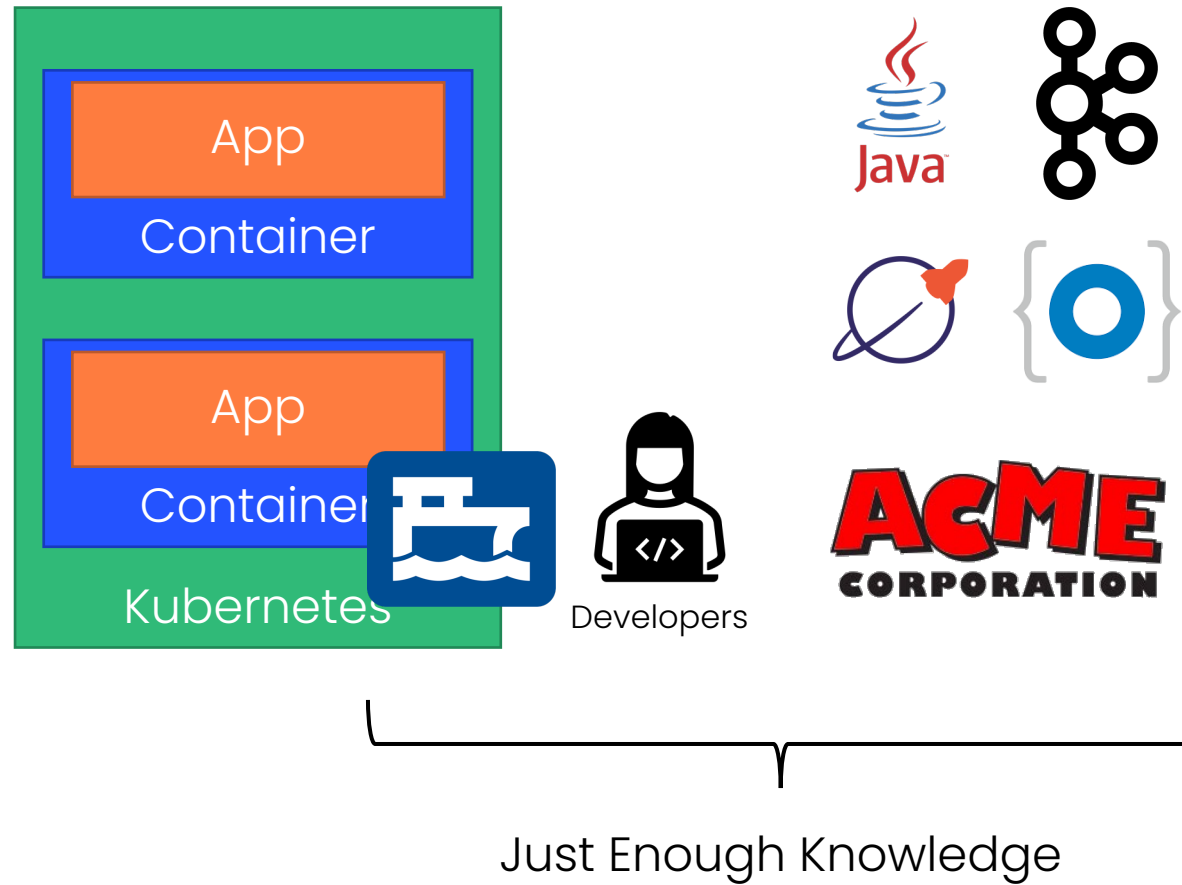Use Helm to mirror your development environment back to your Kubernetes instance

This is probably not every subsystem; you are going to need. And you might have to call these remotely if possible.

Developing

Can we make it easier?

App

Container

App

Container

Kubernetes

Developers
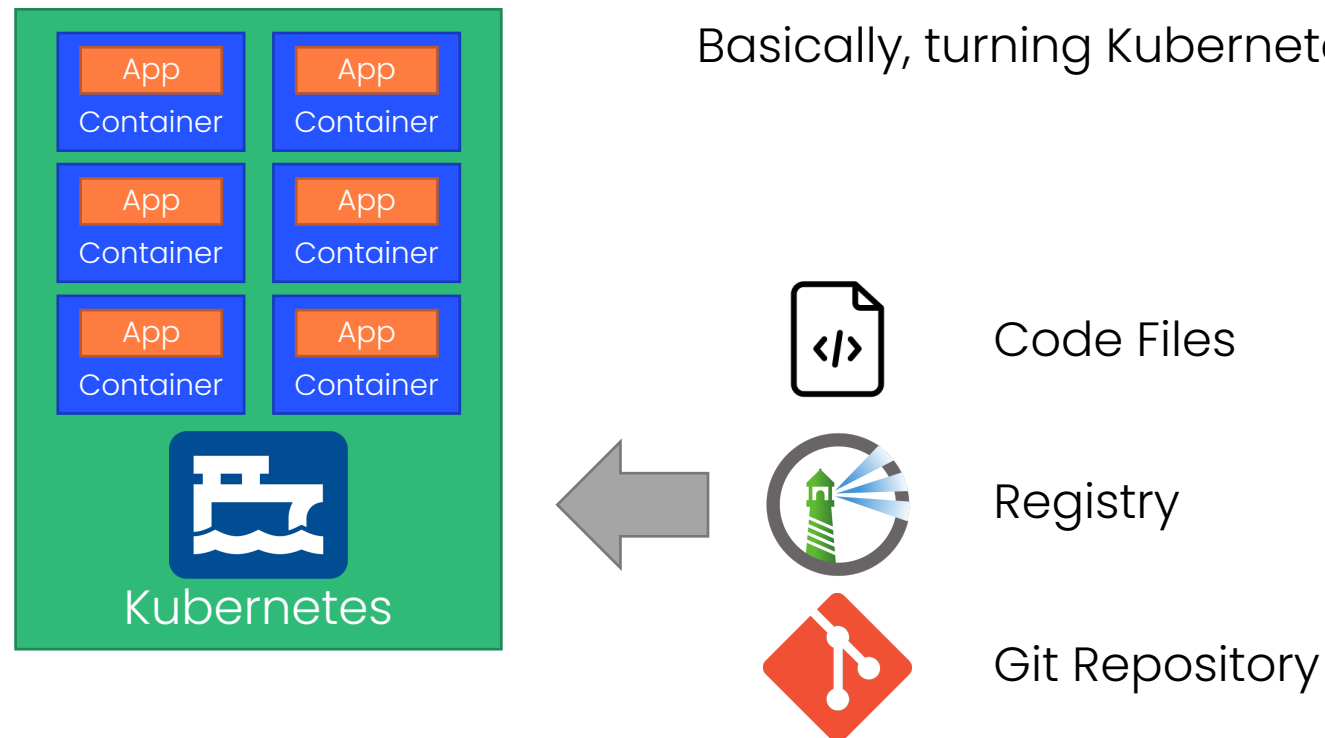
Just Enough Knowledge

What is Epinio?

Application Development Engine for Kubernetes.

Epinio installs into any Kubernetes cluster to bring your application from source code to deployment and allow for Developers and Operators to work better together.
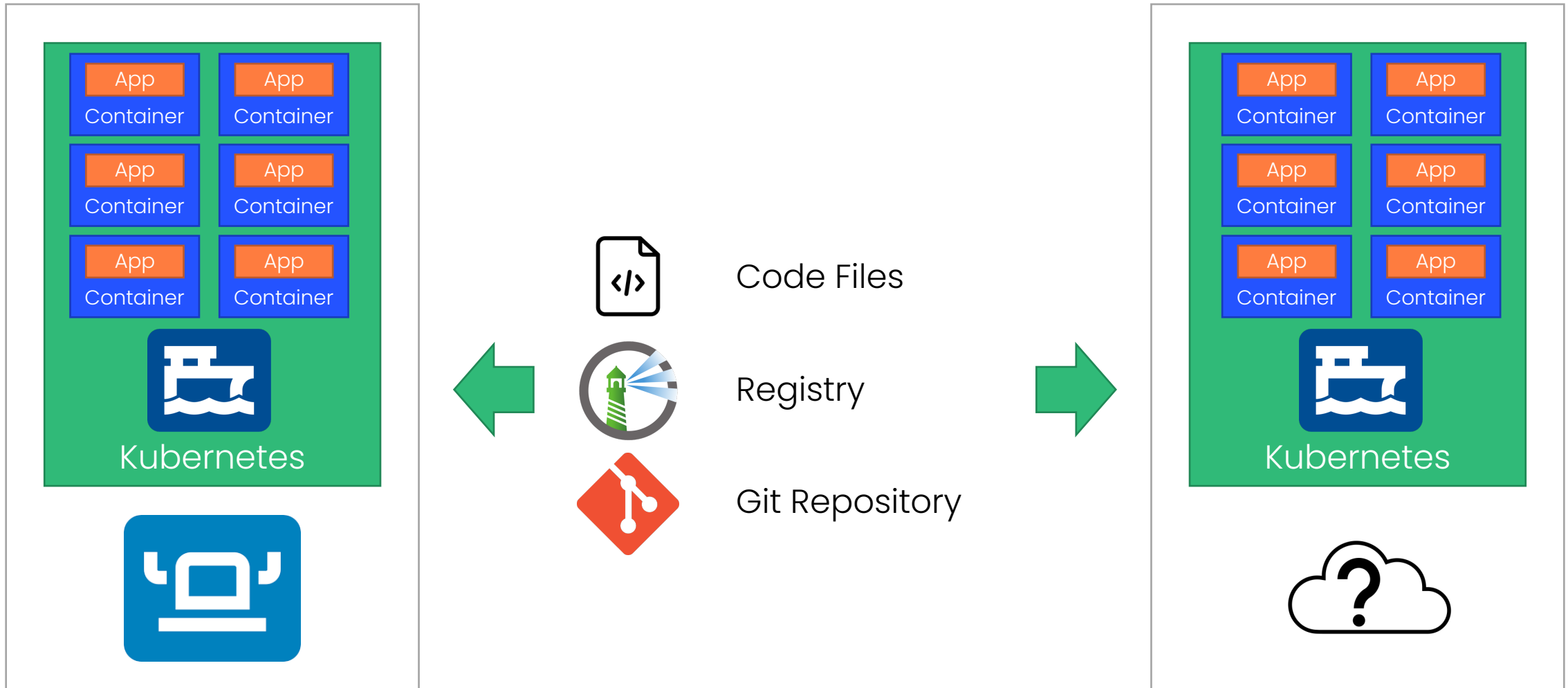
How does Epinio work?

From a single command `epinio push` Epinio builds an image and deploys the application.

Basically, turning Kubernetes into a PaaS.

Kubernetes

Code Files

Registry

Git Repository

How does this look?

Code Files

Registry

Git Repository

Demo?

Thank you!

Robert Sirchia

@robertsirc

If you have any questions about this topic, feel free to connect:

Twitter: @Rancher_Labs

LinkedIn: https://www.linkedin.com/company/rancher/

Slack: https://slack.rancher.io/

Epinio: https://epinio.io/

SUSE

Thank you

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