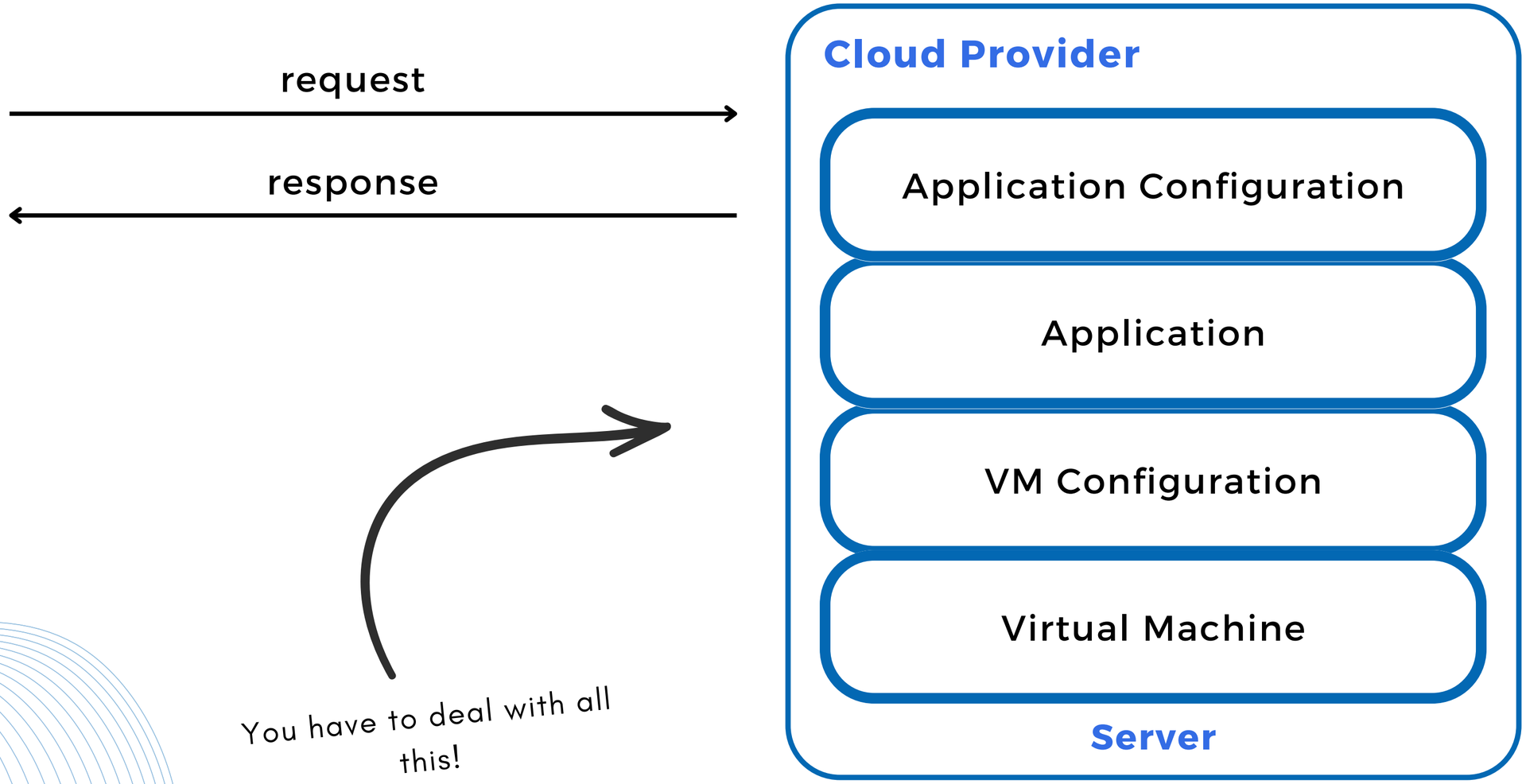
BEYOND TRADITIONAL DEVOPS

A Dive into Serverless with Kubernetes using Knative

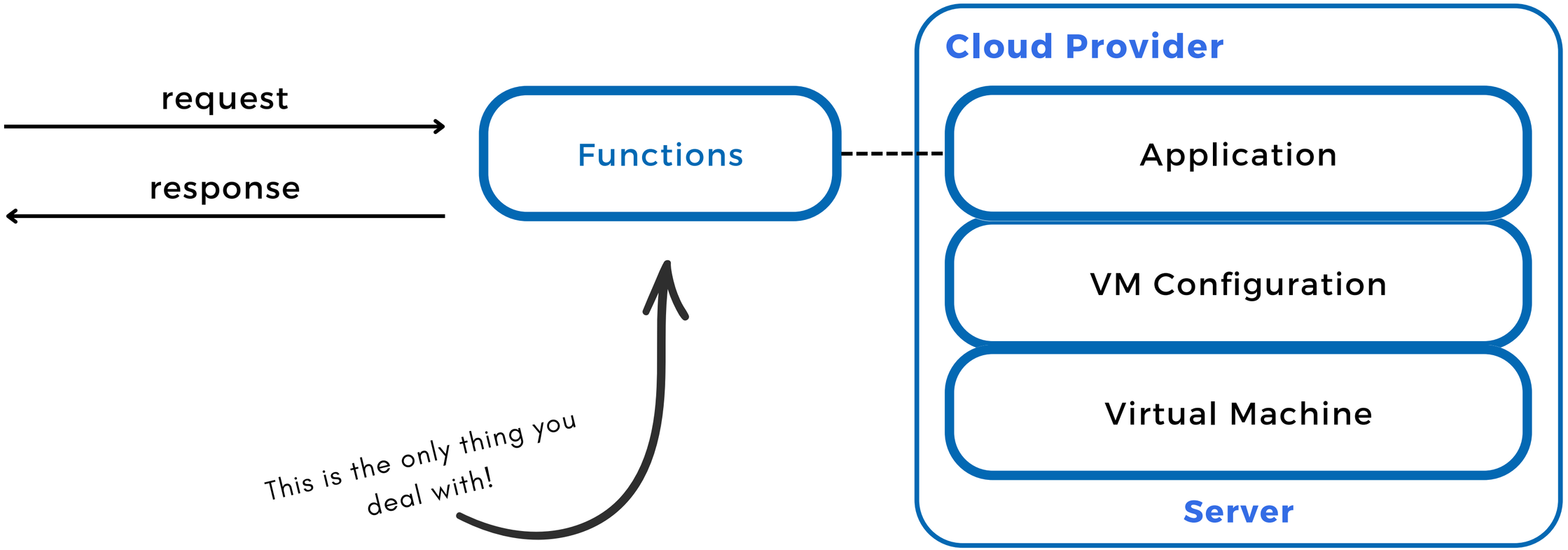
Karan Jagtiani

WHAT IS Serverless?

“With-server” Architecture

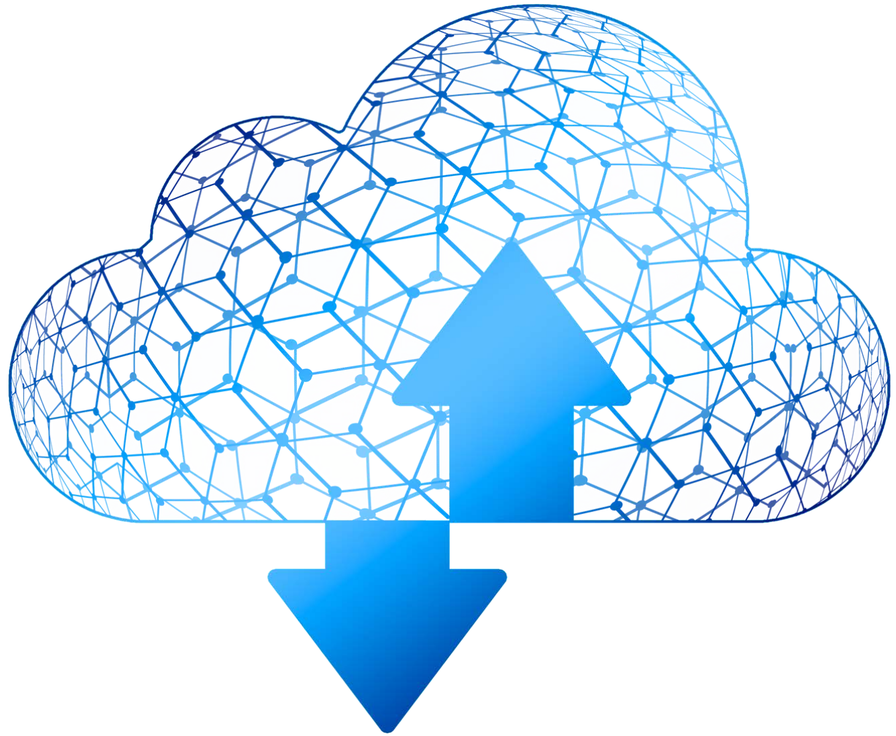


Serverless Architecture



Serverless Offerings

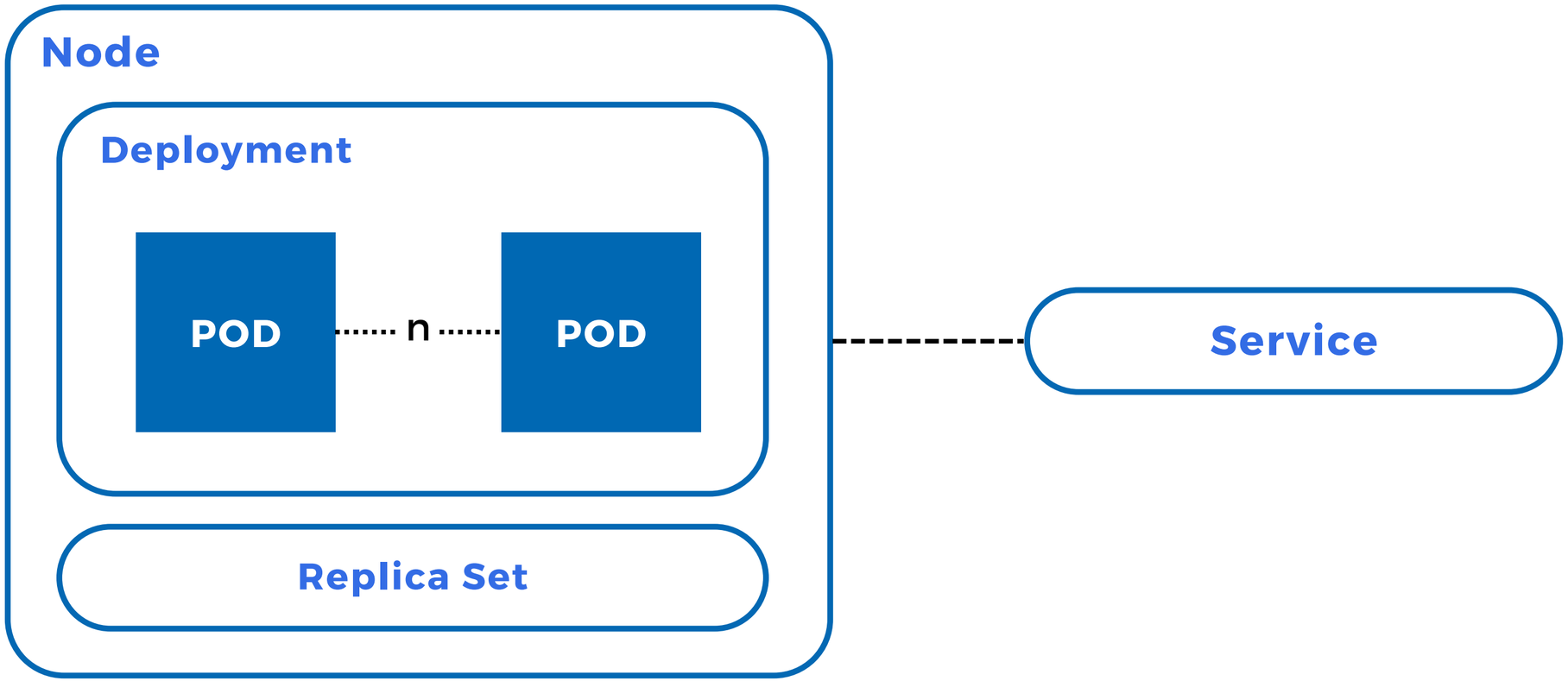
- AWS - Lambda
- GCP - Cloud Functions
- Azure - Serverless Functions
- Vercel - Serverless Functions



INTRODUCTION TO

Kubernetes

Kubernetes Conceptual Overview

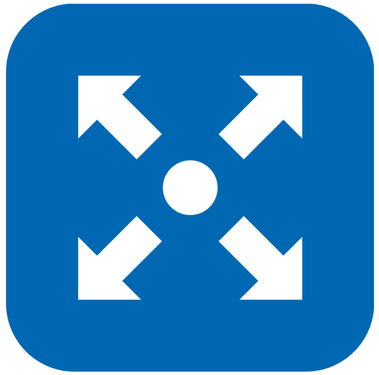


WHAT IS Knative?

Knative

- Open source serverless computing platform written Go for Kubernetes
- Serverless infrastructure right within your Kubernetes setup
- Control over the configuration of your serverless applications
- Two offerings for creating infrastructure for modern serverless workloads:

Features of Knative



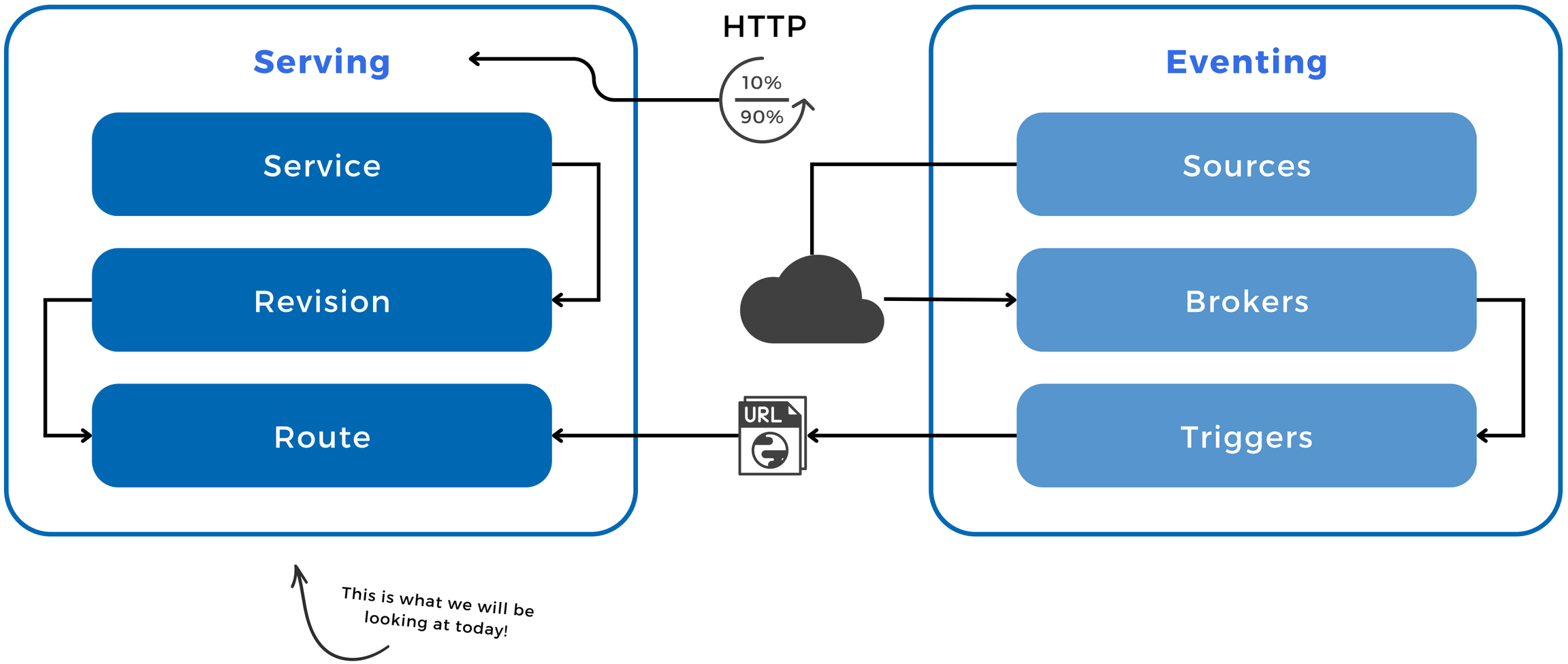
Scale down to zero
& up from zero

YAML based
configuration

Choose different
rollout strategies

Easily integrate
with various tools

Knative Components

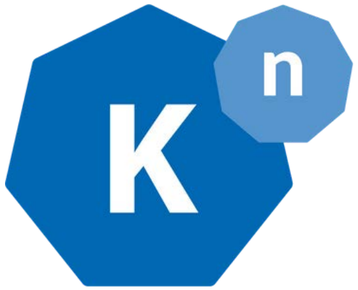


Prerequisites for the Demo

- Docker
- KinD (Kubernetes in Docker)
- Knative Client

Scan this to get the written instructions

DEMO



Recap

- What is the “With-server” architecture
- What is Serverless architecture
- Introduction to Kubernetes
- What is Knative
- Features of Knative
- Knative Components
- Demo of Knative with Kubernetes

LET'S CONNECT!

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