Introducing Shifu, a Kubernetes-native Industrial Edge

Presenter: Tom Qin, Co-Founder & Chief SRE
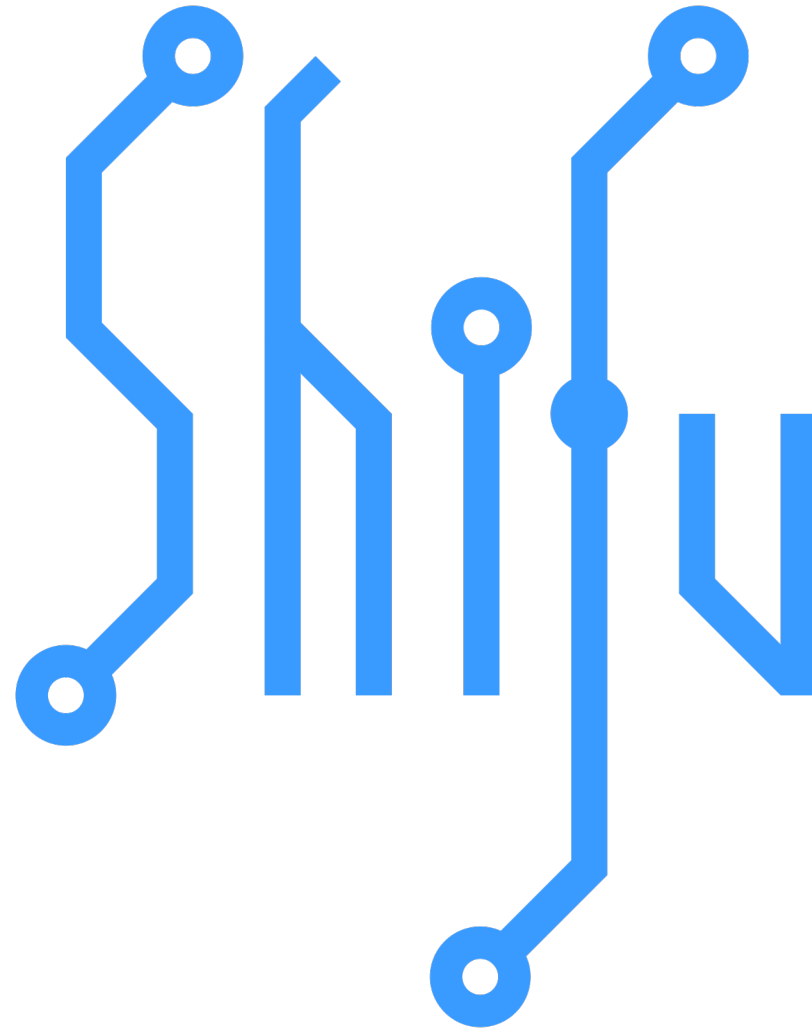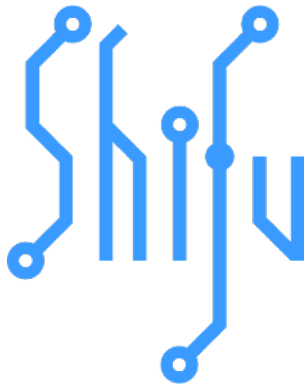
https://github.com/Edgenesis/shifu/
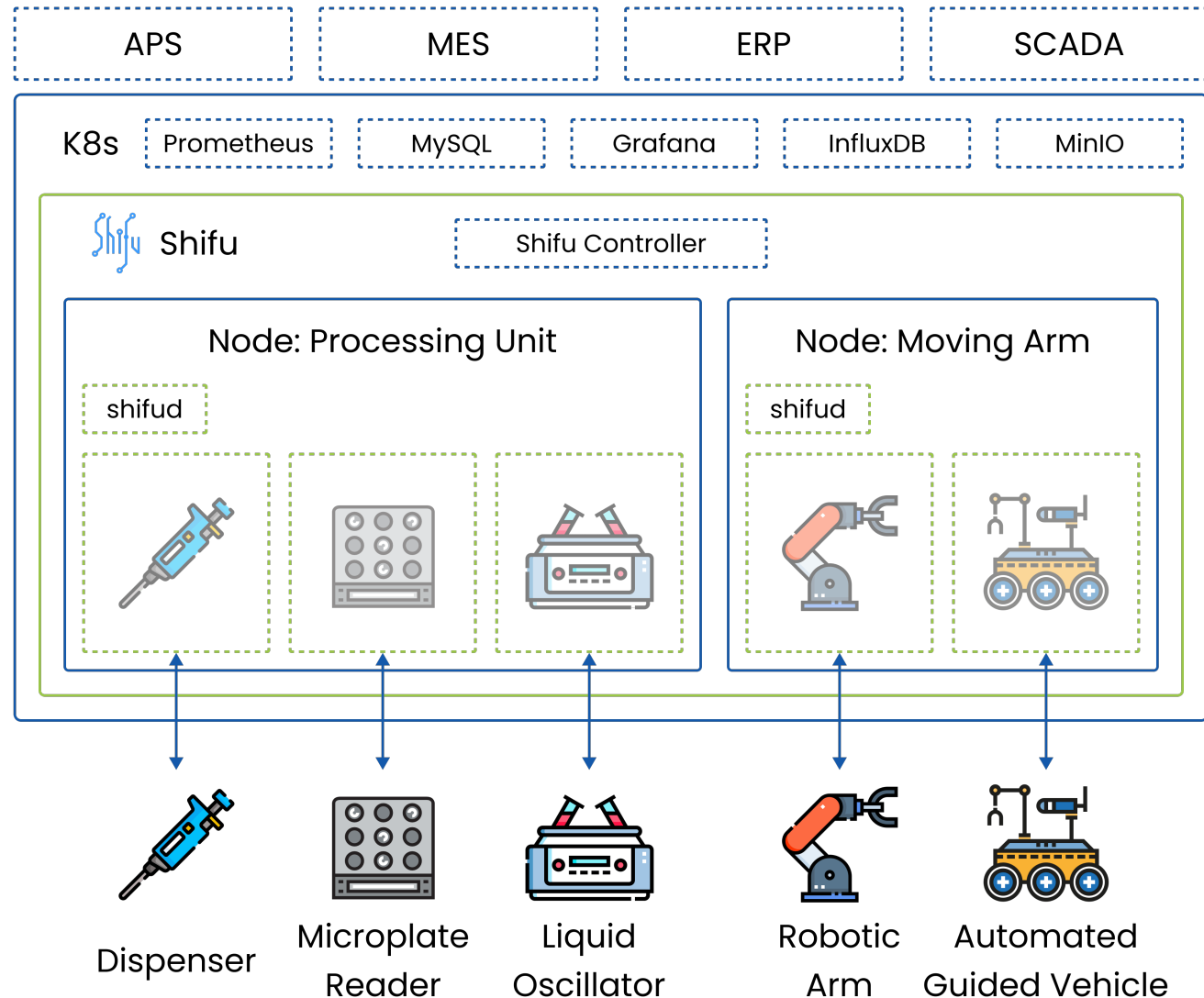
edgenesis

Agenda

- Introduction to Shifu
- Introduction to Demo
  - Demo Architecture
  - Demo
- Q&A

Shifu is a Kubernetes-native, production-grade, protocol & vendor agnostic IoT development framework
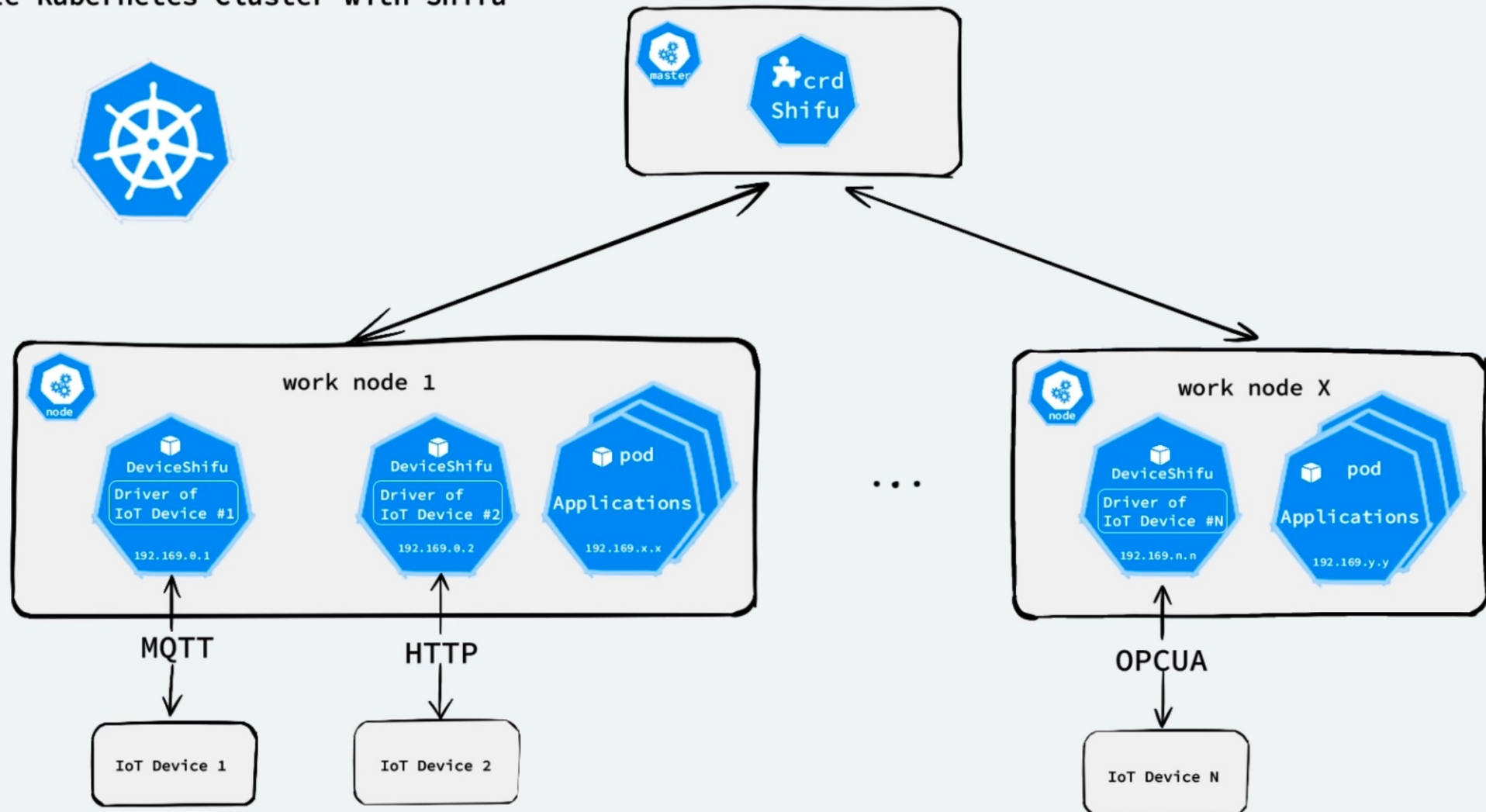
- Lightweight
- Intelligent Scheduling
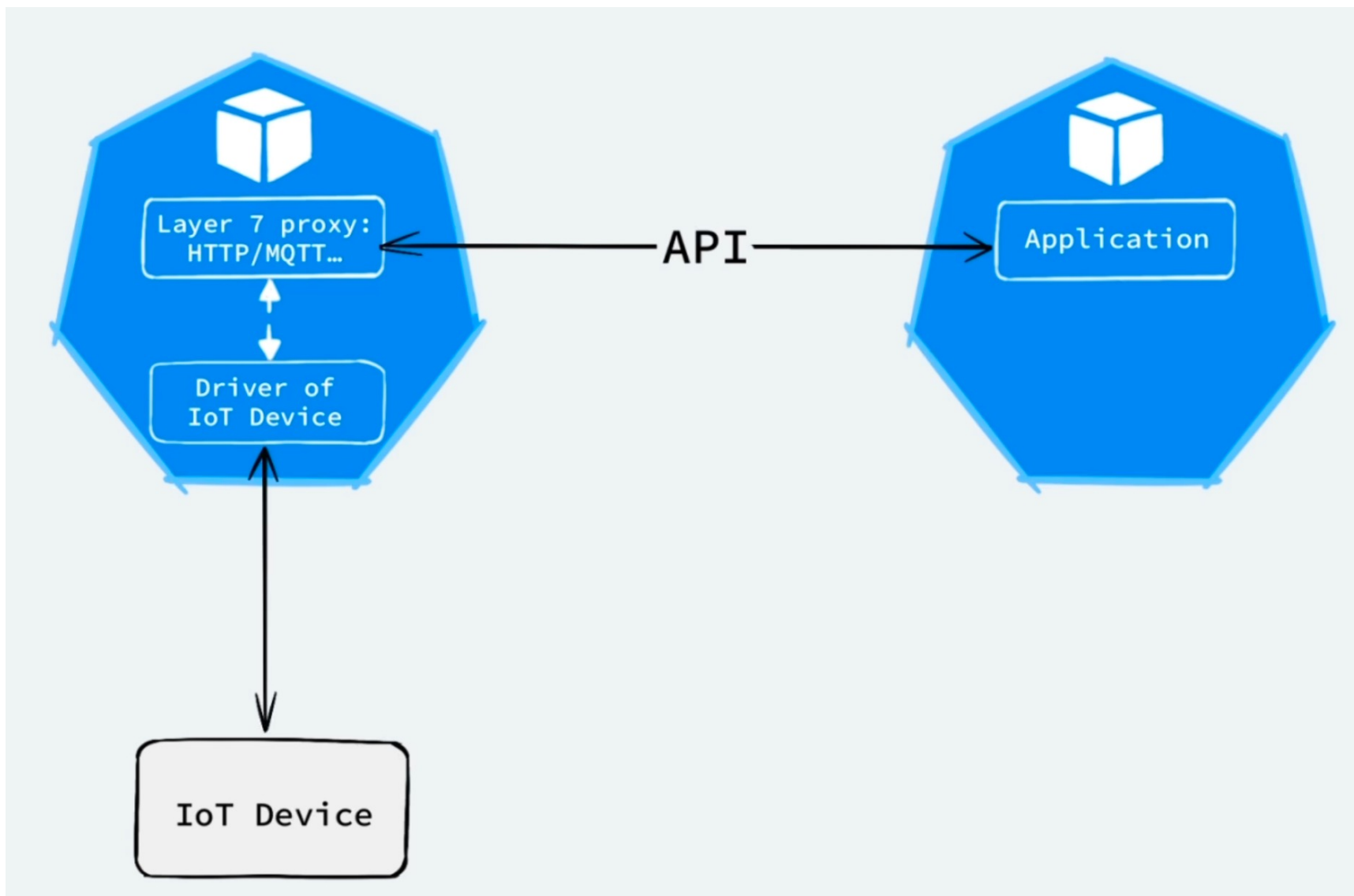- High Availability
- Security and Compliance

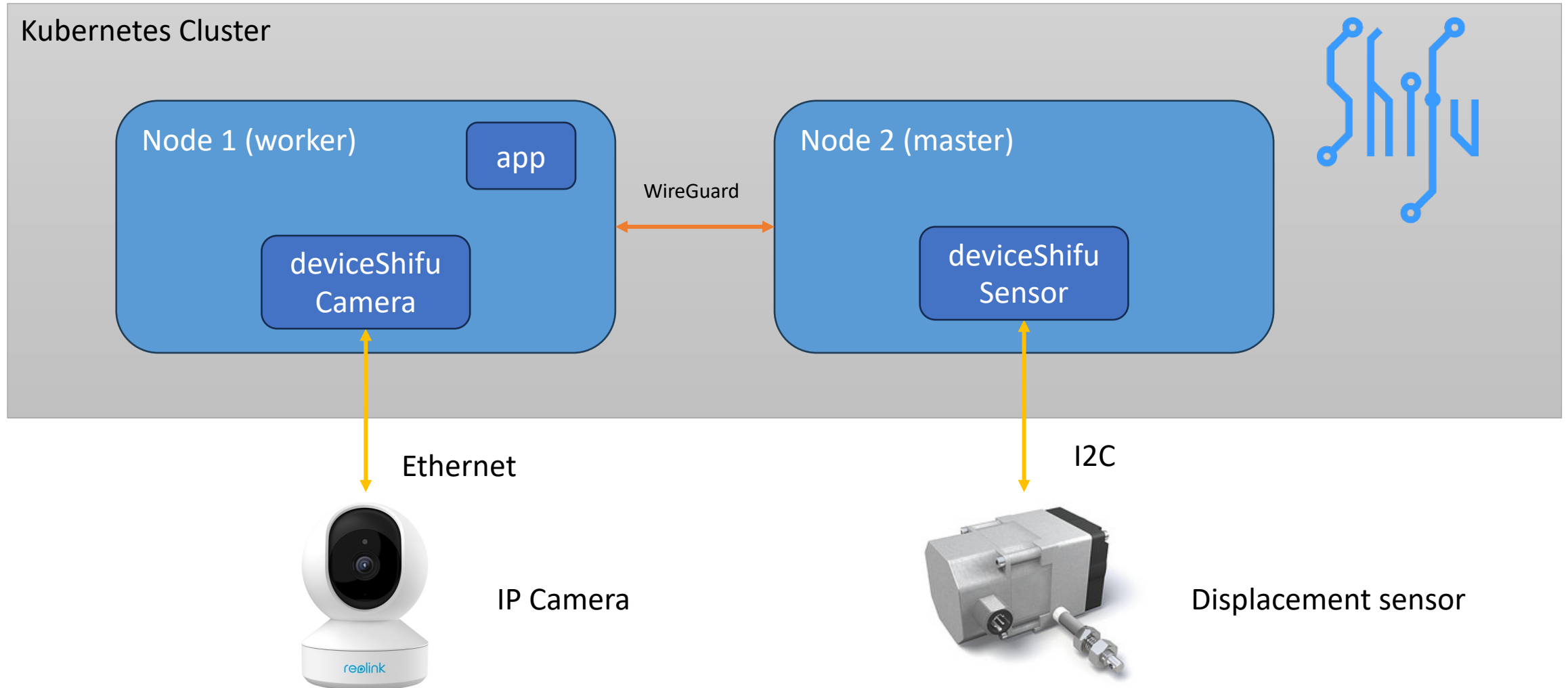| APS | MES | ERP | SCADA |

K8s | Prometheus | MySQL | Grafana | InfluxDB | MinIO

Shifu — Shifu Controller

Node: Processing Unit

shifud

Node: Moving Arm

shifud

Dispenser

Microplate Reader

Liquid Oscillator

Robotic Arm

Automated Guided Vehicle

Shifu's Architecture

A Sample Kubernetes Cluster with Shifu

deviceShifu

Demo Architecture

Demo Time

Thank you!

https://github.com/Edgenesis/shifu/

https://github.com/Edgenesis/shifu-plugin-for-chatgpt

Presenter: Tom Qin, Co-Founder & Chief SRE

Email: xqin@edgenesis.com

edgenesis