

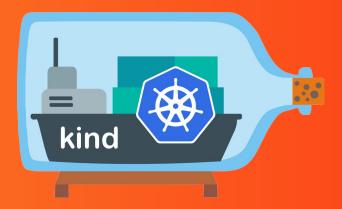
# Play with KinD, nGinx Ingress Controller and Secured gRPC server

InfraCloud Technologies
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https://twitter.com/infracloudio











### **About me**



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Senior Software Engineer @InfraCloud

Github: github.com/mahendrabagul

Interests: Kubernetes, Golang and cloud-native

technologies



### **Brief Agenda**

### - Theory

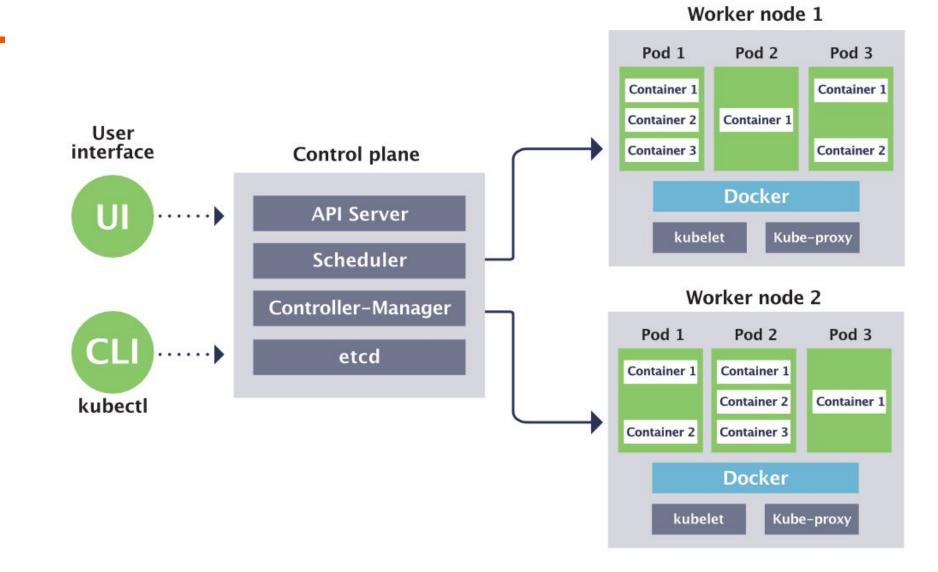
- Kubernetes Architecture
- KinD (Kubernetes in Docker)
- nGinx Ingress Controller
- Kubernetes and Ingress Deployment
- Certificates/mTLS
- Architecture of the final Deployment

### - Demo

- KinD and nGinx Ingress Controller Configuration
- Run secured gRPC server behind Ingress

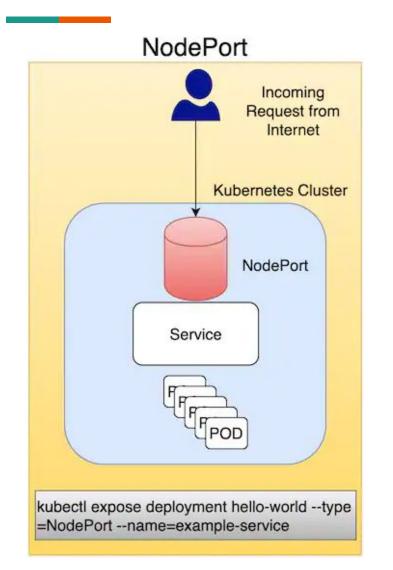


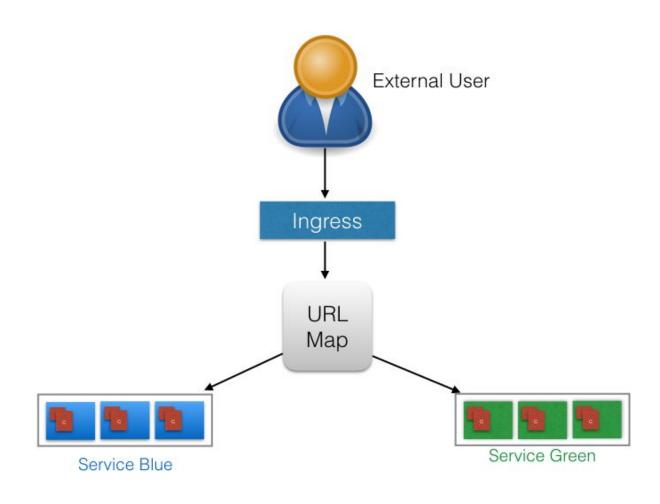
### **Kubernetes Architecture**





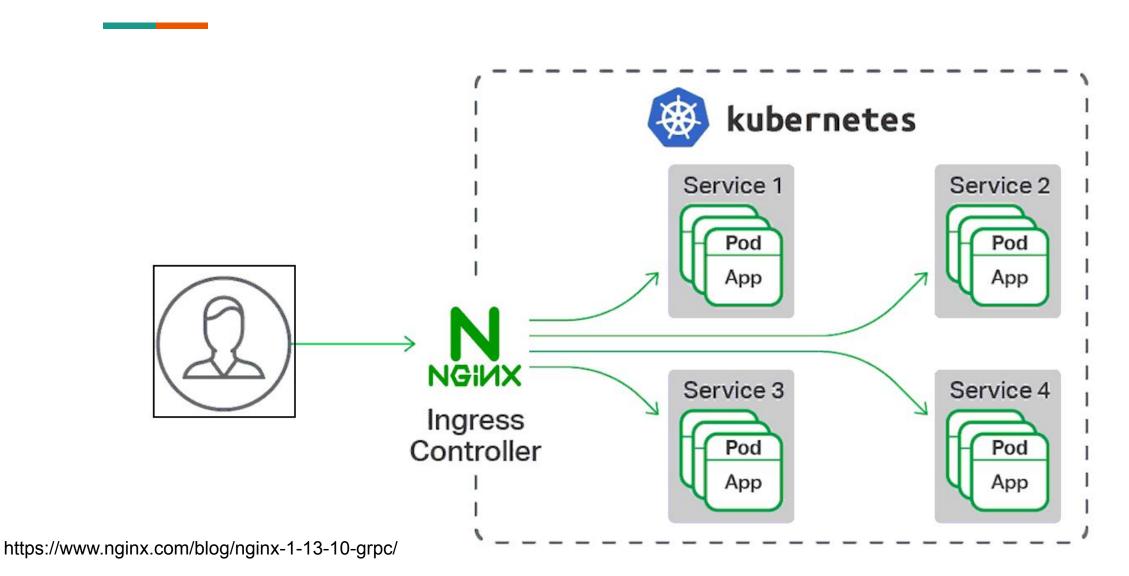
## **NodePort Service vs Ingress**







## Kubernetes setup with nGinx Ingress Controller





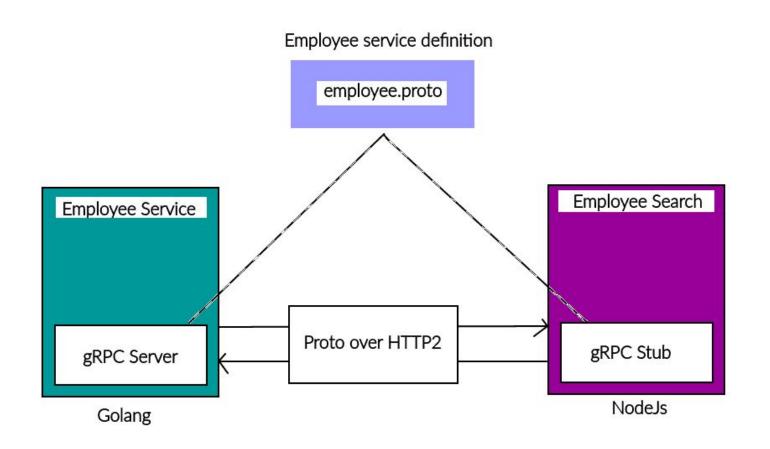
### **Kubernetes in Docker-(KinD)**



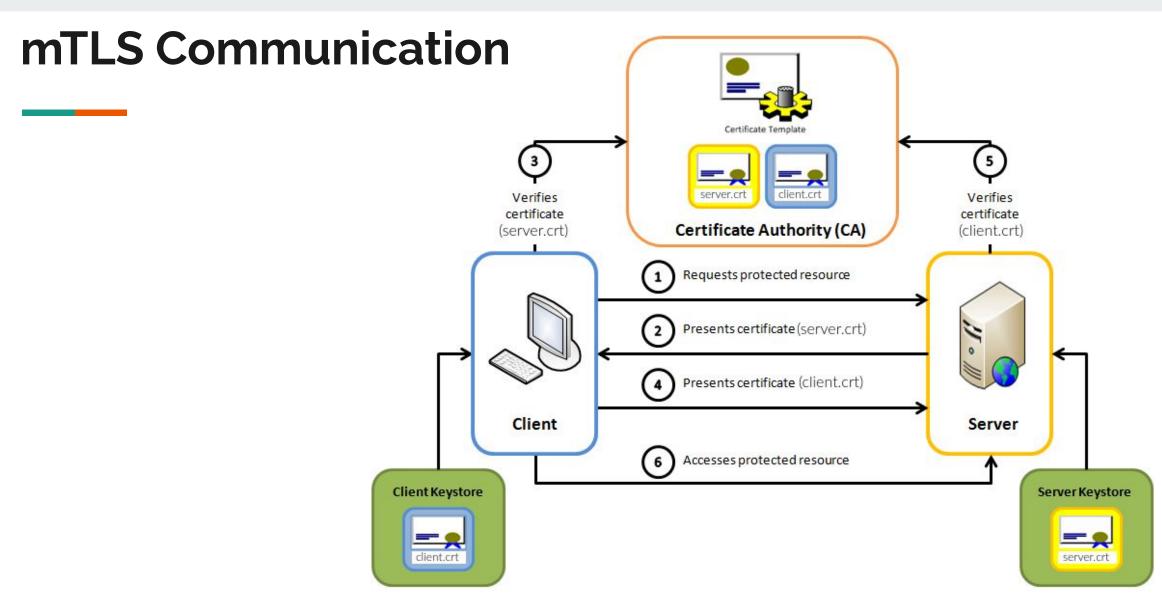
kind is a tool for running local Kubernetes clusters using Docker container "nodes". kind was primarily designed for testing Kubernetes itself, but may be used for local development or CI.



# gRPC communication

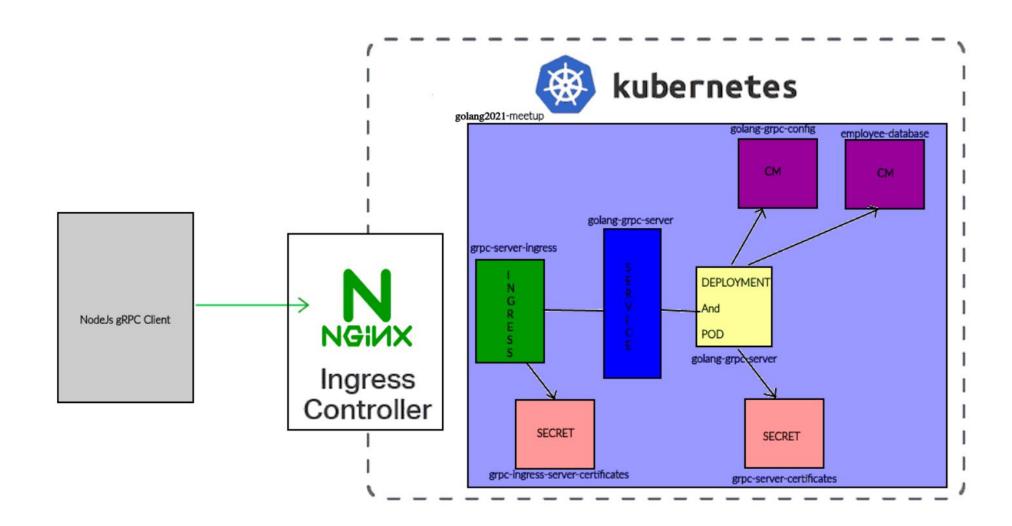








### gRPC Server on Kubernetes exposed via ingress



## Demo 1

# Create KinD cluster and install nGinx Ingress Controller

## Demo 2

# Deploy gRPC server on Kubernetes behind nGinx Ingress

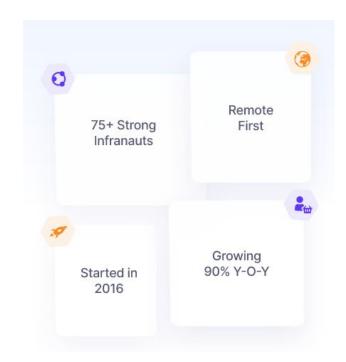


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# Thank you!



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Dank je!

Kiitos!

આભાર!

धन्यवाद!

Grazie!

Je vous remercie!

ありがとうございました! ਤੁਹਾਡਾ ਧੰਨਵਾਦ! நன்றி! ధన్యవాదాలు! നന്ദി!

THANK YOU!