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Motivation

- As the industry moves toward cloud services, we want to enable individuals to easily access cloud hosting
- An eco-system where **users** create services and **providers** supply cloud resources

Background

- **Cloud Computing:**
 - \$175.4bn Market Cap | 21% Annual Growth
 - Used in 73% of all organizations
- **Kubernetes:** enables cloud computing
 - Easily deploy and scale **containers** onto **clusters**
- **Container:** packages an application with dependencies
- **Cluster:** set of machines connected to work as a unit

Problem

- **User:** Creating and accessing clusters can be difficult
- **Provider:** Tedious managing cluster users

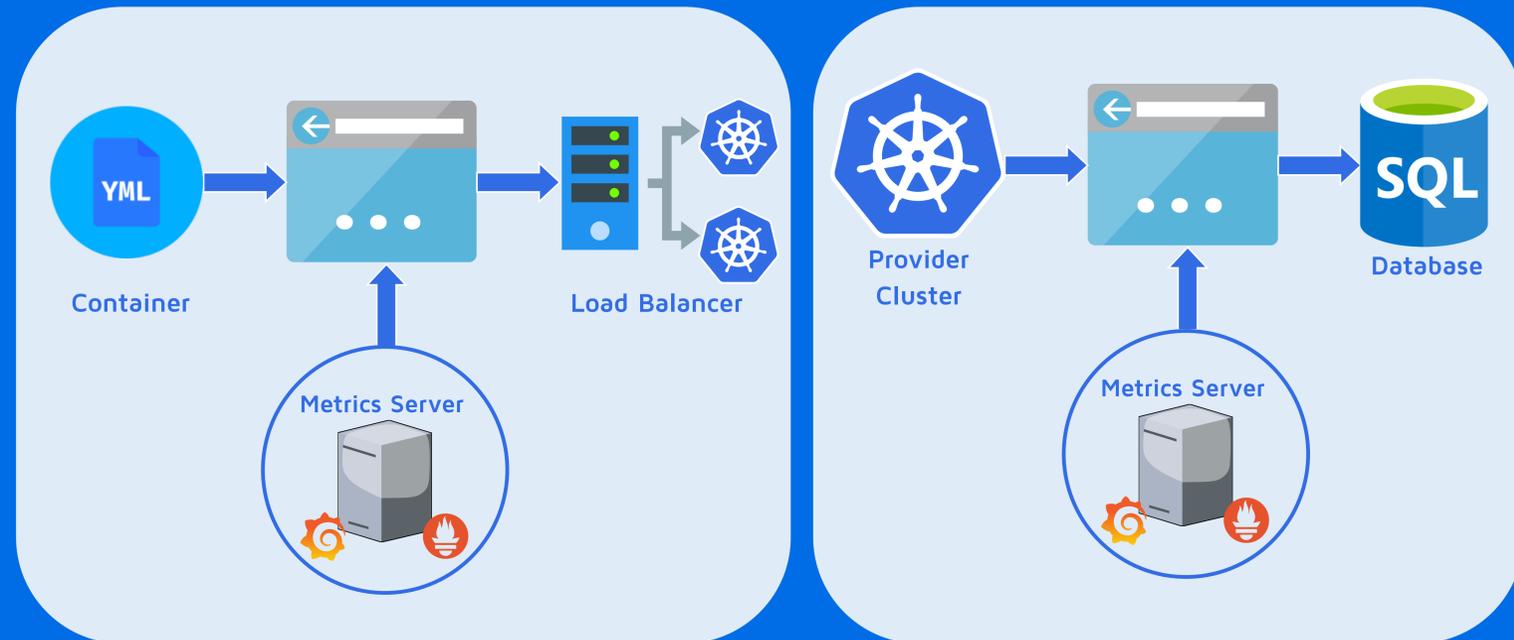
Solution

Kubernetes Konekt: A web application serving as a proxy, connecting **users** like you to **providers** with clusters

Technologies



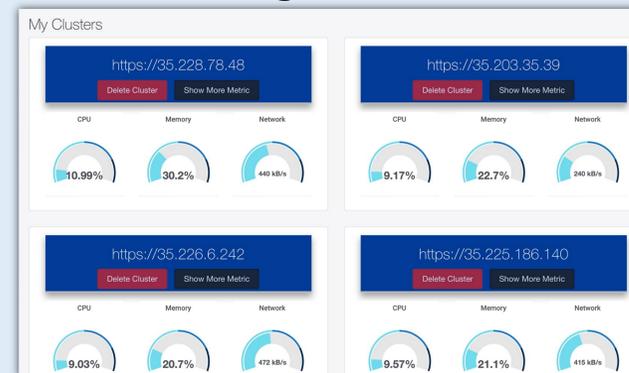
System Architecture



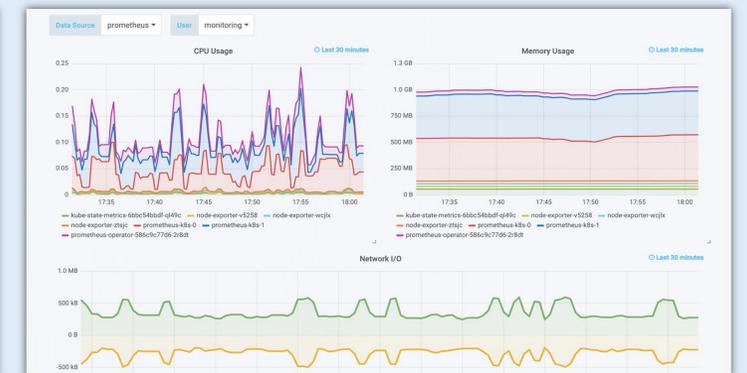
User Workflow

Provider Workflow

Manage Clusters



Real-time Performance Metrics



Create Deployments

ID	NAME	KIND	CLUSTER URL	STATUS	ACTION
451	simple-web-service	Deployment	https://35.228.78.48	Running	Delete Container Get Status
461	simple-web-service	Service	https://35.228.78.48	Running	Delete Container Get Status
471	simple-web-service	Deployment	https://35.203.35.39	Running	Delete Container Get Status
481	simple-web-service	Service	https://35.203.35.39	Running	Delete Container Get Status

Mentors: Ross Hale, Angela Chin

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