

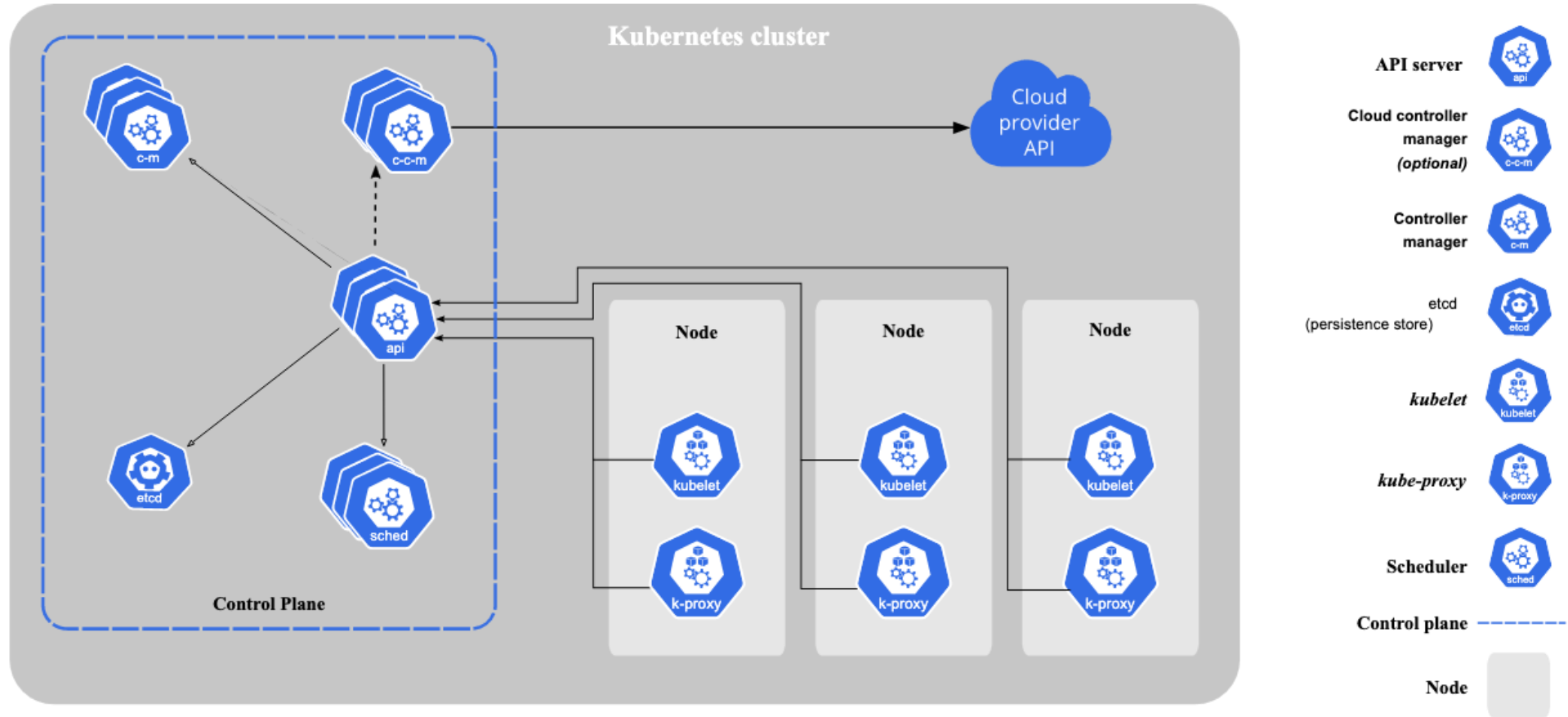


# Kubernetes Workshop - Beyond kubectl

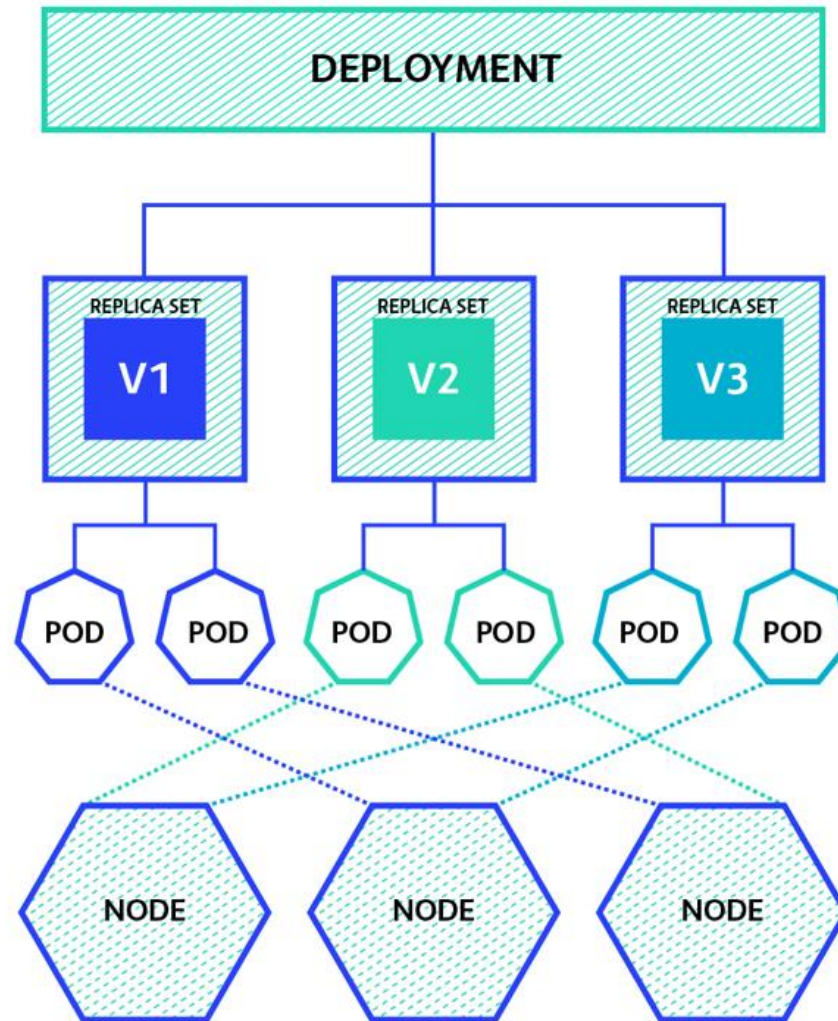
#TechnoWise

Nalin Kant Gupta

# K8 Architecture

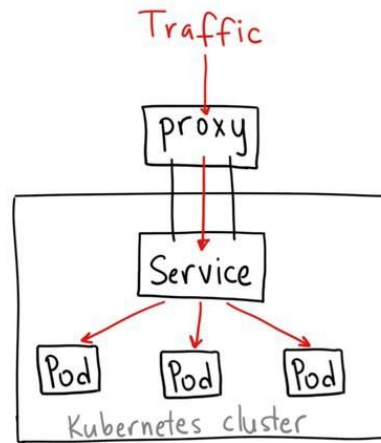


# Deployment

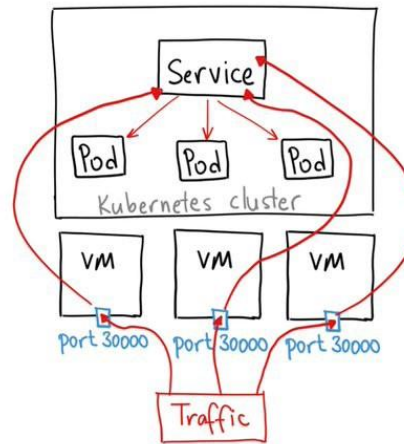
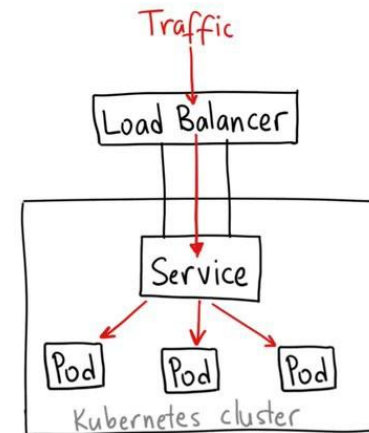


# Service

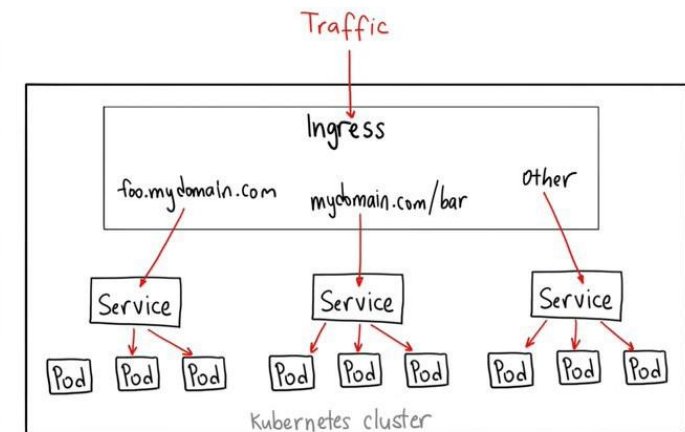
**ClusterIP**



**LoadBalancer**



**NodePort**



**Ingress**

# Secret

## Using Secrets



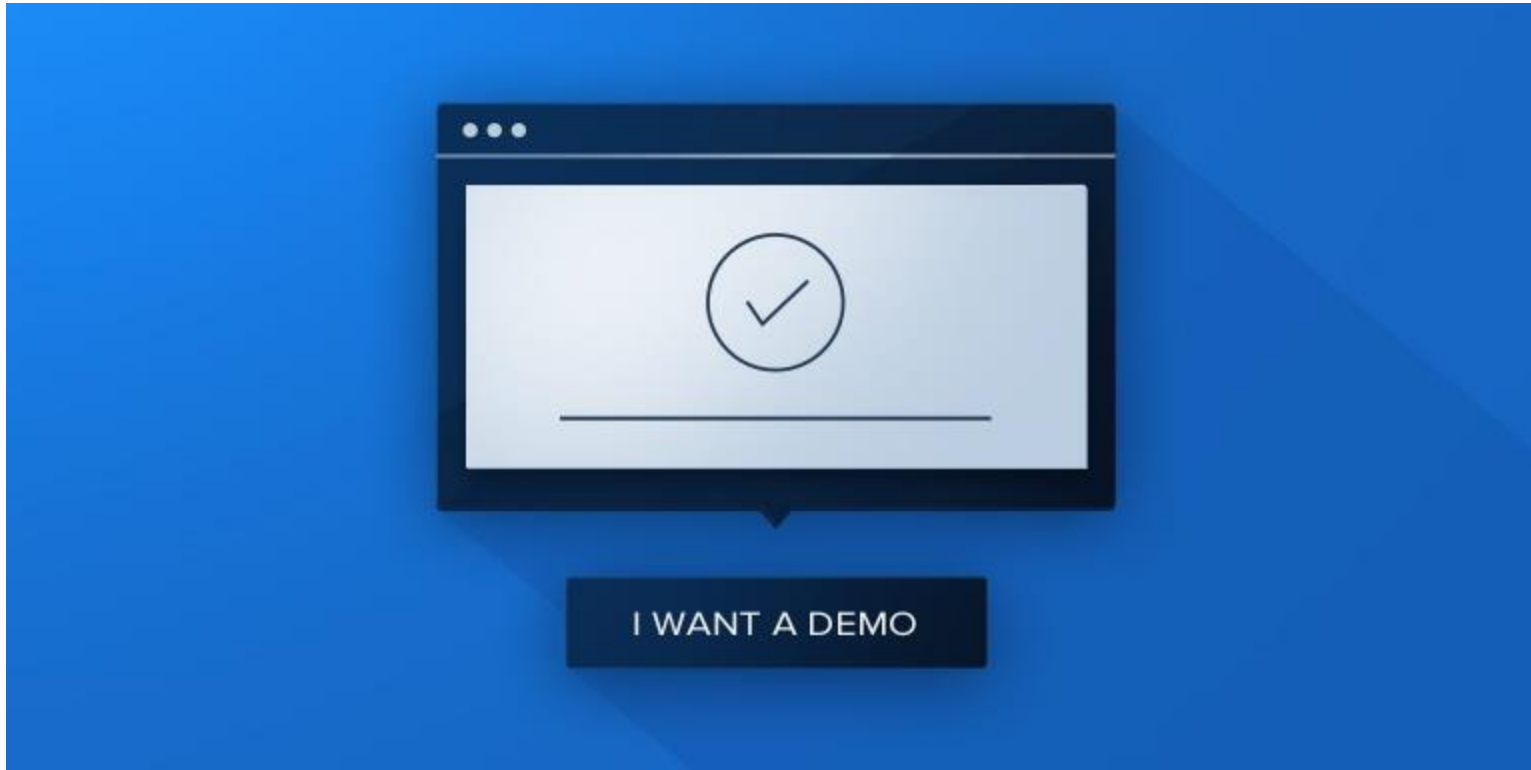
- Secret is an object that contains a small amount of sensitive data such as a password, a token, or a key
- Secrets reduce the risk of exposing sensitive data to unwanted entities
- Like ConfigMaps, Secrets are Kubernetes API objects created outside of Pods
- Secrets belong to a specific Kubernetes Namespace
- The size of each Secret cannot exceed 1MB

# Config

## Whats are ConfigMaps?



- Kubernetes objects for injecting containers with configuration data
- ConfigMaps keep containers agnostic of Kubernetes
- They can be used to store fine-grained or coarse-grained configuration
  - Individual properties
  - Entire configuration file
  - JSON files
- ConfigMaps hold configuration in Key-Value pairs accessible to Pods
- Similar to `/etc` directory and files in Linux OS



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