

Cloud Native and Multicloud Automation

Kubermatic, the Leading Kubernetes Experts

- Creator of **KubeOne** & **Kubermatic**, Enterprise Software Platform, widely deployed in EU
- The top Kubernetes employer in Europe
- **Top 5 corporate committer** to the [Kubernetes Project](#) in the past 12 months
- Employs the **#1 and #2 top contributors** to [Kubernetes Dashboard](#) for the past 2.5 years



Our Team

We are a team of 80+ employees across Europe and the US



Location

Founded in 2016, our headquarters are in Hamburg, Germany

Cloud native infrastructure delivers

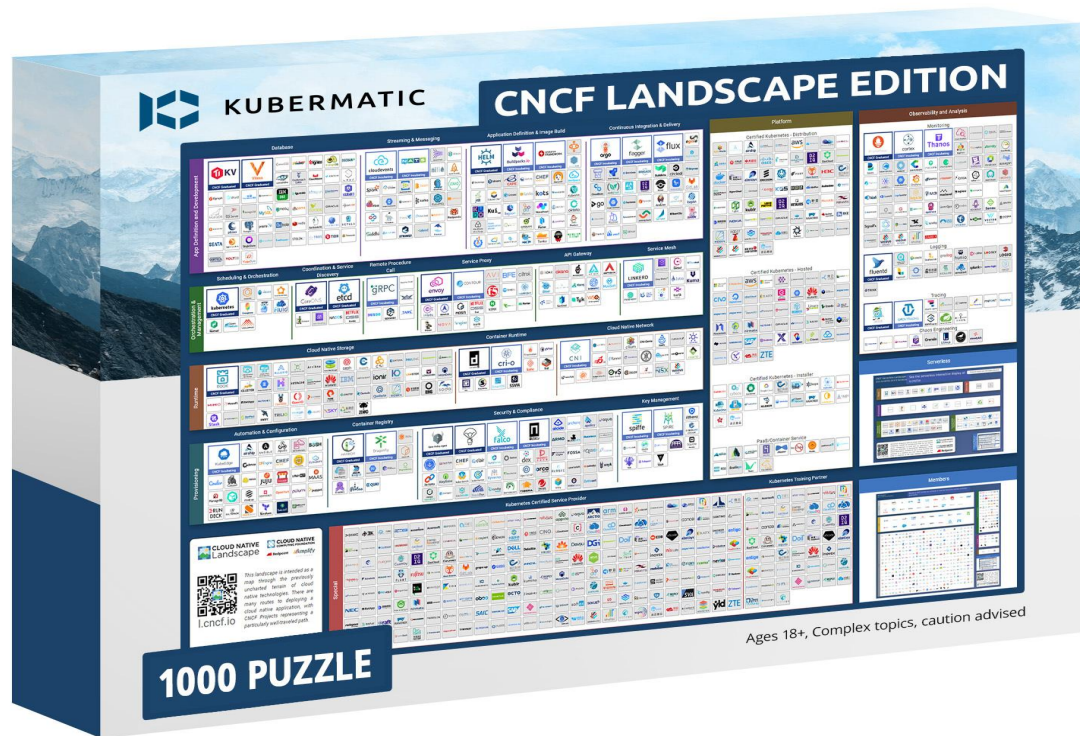
- Improved resource utilization
- Facilitated application upgrades and maintenance
- Shorter software development cycles
- Containers for packaging und Kubernetes API for application management
- From cloud to datacenter up to the edge
- Reduced overall IT spend

Cloud Native for Disruption

- Cloud Native will unfold its disruptive nature through recombination
- Smart people from inside and outside of an organization will crash proven processes every second by providing completely new recombinations
- An entrepreneur is just someone who recombines old ideas
(see Schumpeter 1934, “The Theory of Economic Development”)

Stay ahead and maximize the opportunities of your infrastructure

Cloud Native is Massive

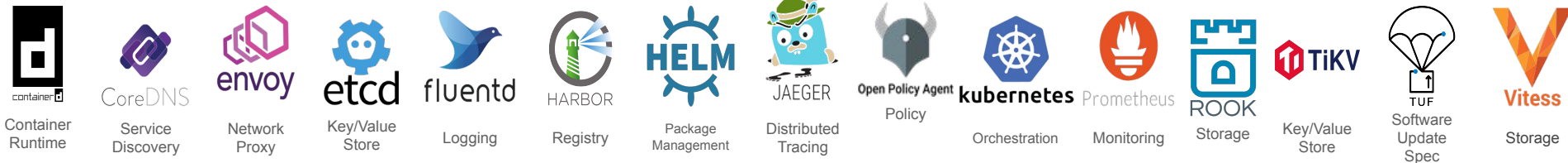


We try to make
it simpler

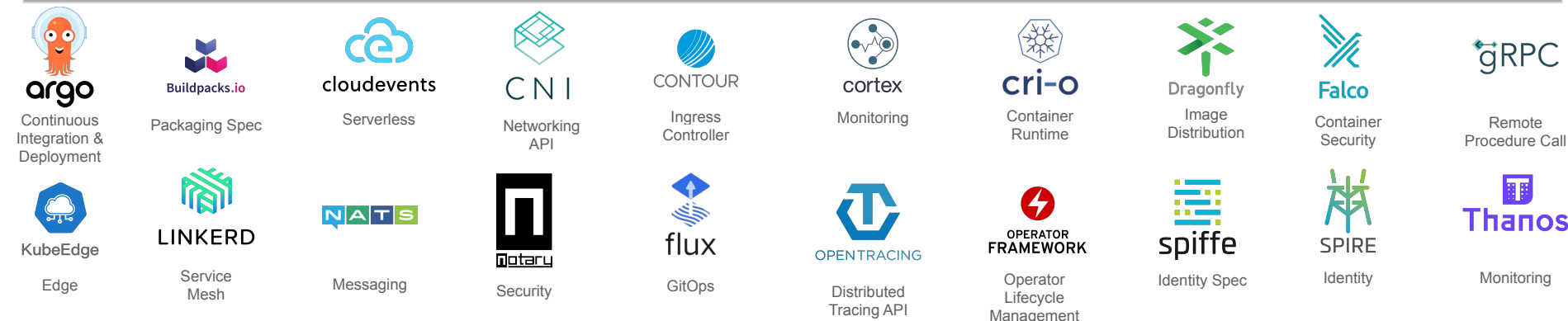
Cloud Native Computing Foundation

Nonprofit, part of the Linux Foundation; founded Dec. 2015

Graduated Projects



Incubating Projects

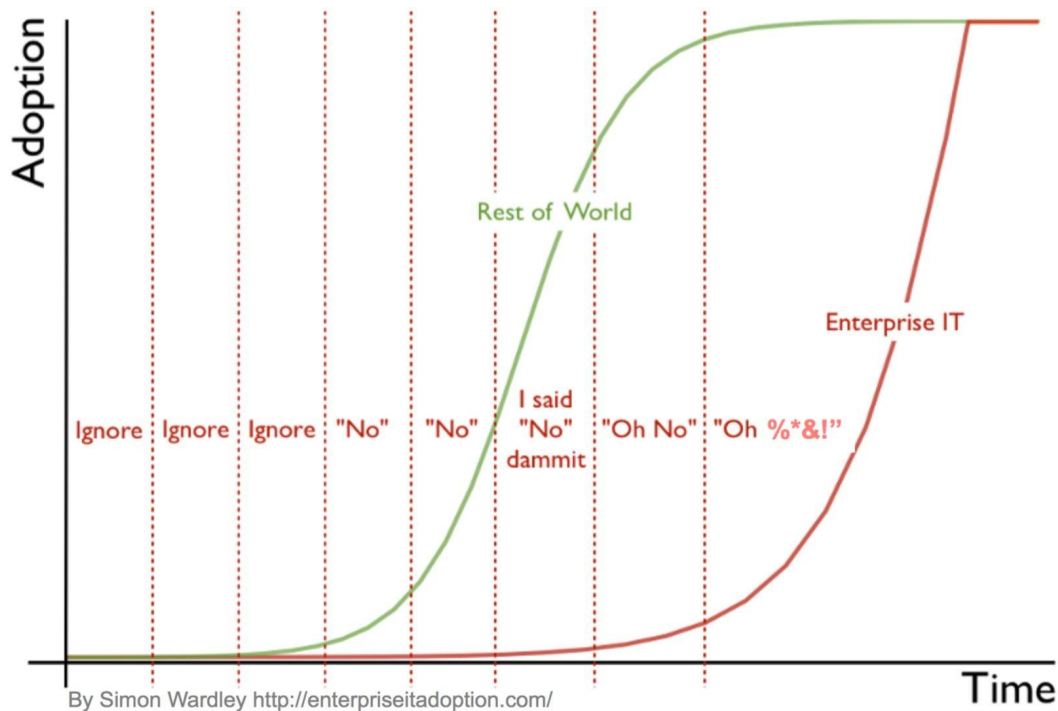


How can we make it simpler

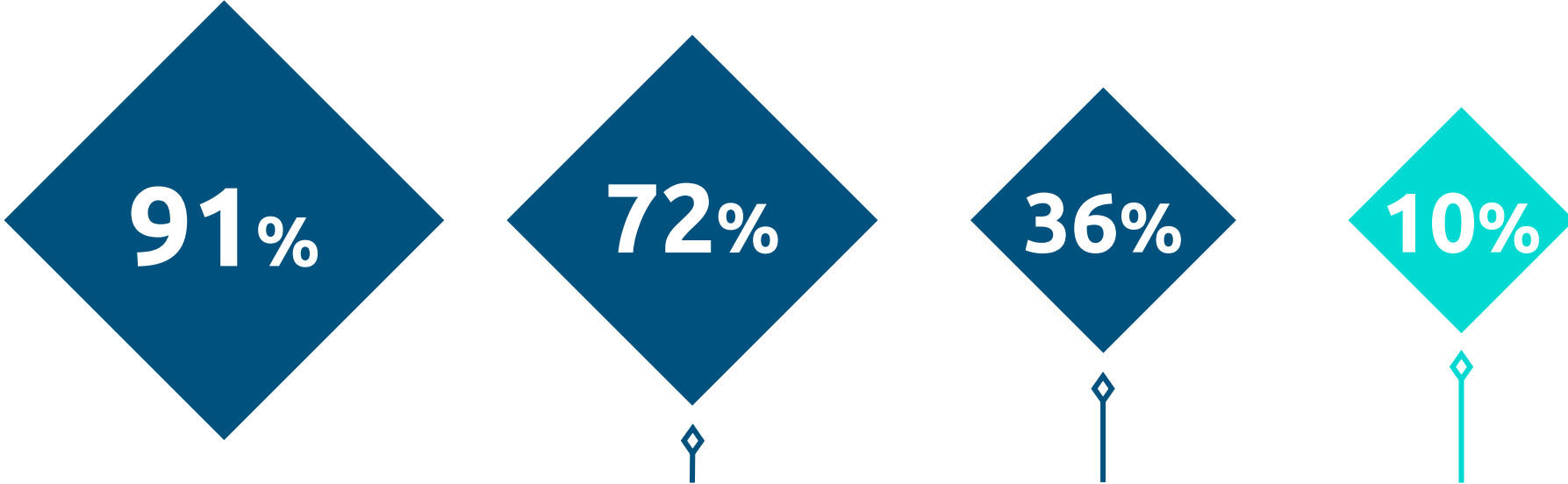
The New World Is Here - Let's make it simple!

	Old World		New World
Infrastructure	Vendor lock-in	—◇	Continuous freedom of choice
Dev Experience	Waiting for Ops	—◇	Self-service platform
Operations	Resource-intensive	—◇	Automated
Resilience	Costly downtimes	—◇	Highly available, self-healing infrastructure
Cloud costs	Cloud-provider dependant	—◇	Choose of the price-performance

Enterprise Cloud Native Adoption



Simply Adopting Multi-cloud And Kubernetes Is Not Enough



91%

of companies use
hybrid and multi-cloud

72%

cite complexity as
major challenge

36%

use orchestration

10%

use automated
orchestration



Cloud Native Computing Challenges

- Scale and distribution
 - 100s or 1000s of locations
 - Harsh environments in remote or unreachable location
 - Dynamic provisioning
 - Global data experience
 - Security risks
- Application lifecycle management requires automation
- Integration with and into legacy environments

Why Cloud Native Computing needs Kubernetes

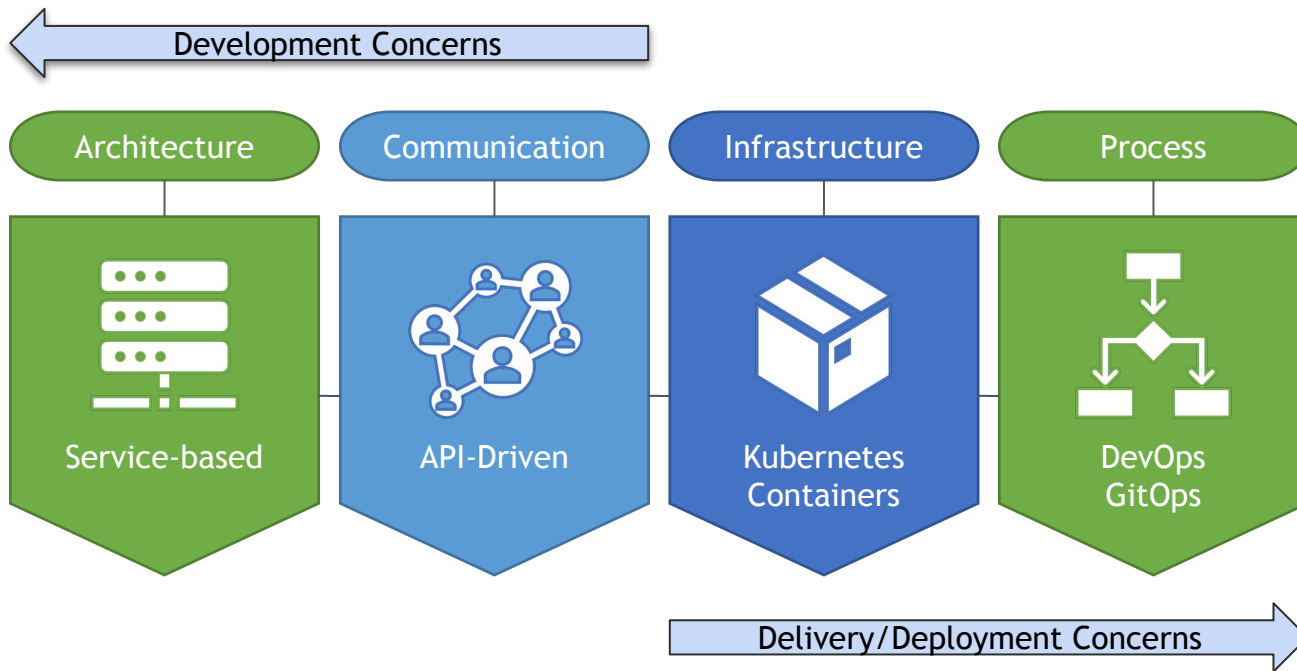
Cloud Native Computing needs:

- Standardized declarative APIs
- Immutable infrastructure
- Automation and resilience

Scaling through software rather than people results in:

- Reduced Total Cost of Ownership
- Higher resiliency and faster time to recovery
- Faster time to market

Key tenets of cloud-native application development



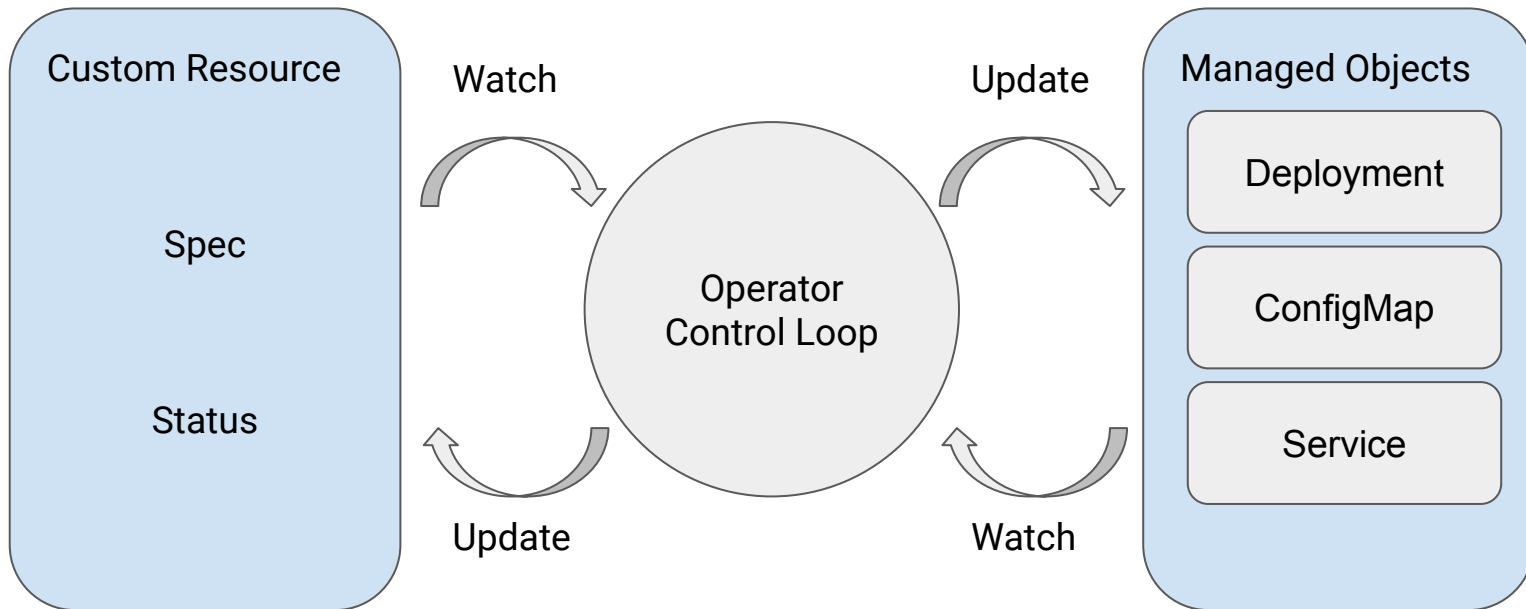
Power through Automation

Scripting does not work for massive Automation

Scripting is a slow, time consuming process that is challenging from a maintenance perspective.

- The risk of human error is high and it can be difficult to track and fix these errors, which makes managing existing scripts even more complicated.
- **When something goes wrong, nobody knows what happened.**
- In many cases, it can be hard to even figure out who even wrote the scripts in the first place.
- Maintenance and lack of control over the lifecycle further complicates things

What Are Kubernetes Operators?



Benefits of Using Operators:

- Automate tasks of human operators (deployment, upgrades, backups, etc.)
- Make applications more cloud-native with Kubernetes.
- Make application operations testable and scalable
- **Ease the application management in multi and hybrid cloud environments.**



KUBERNATIC

Kubernetes open source automation



Our Portfolio



KUBERMATIC
KubeOne

Automate operations of a single Kubernetes cluster on your chosen cloud, on-prem, or edge environment.



KUBERMATIC
Kubernetes Platform

Automate multi cloud, on-prem, and edge operations with a single management UI enabling you to deliver the cloud native transformation immediately.



KUBERMATIC
KubeCarrier

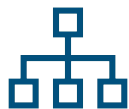
The operator of operators. Centrally manage all your services and applications across multiple clusters, clouds and regions with Kubernetes native API and tooling.

KubeONE - Features

- **Open source** and **provider neutral**
- Full Kubernetes cluster lifecycle: **install, upgrade, repair, unprovision**
- Supports various nodes OS'es: **Ubuntu, CentOS/RHEL, and CoreOS/Flatcar**
- **Declarative cluster declaration** brings reproducibility
- Supports all **upstream-supported Kubernetes versions**
- Automates **worker provisioning**

Kubermatic Kubernetes Platform

A Unified Solution for Automated Cloud Native Operations
With One Enterprise-grade Self-service Platform



Any Infrastructure



Automated Ops



Density & Resilience



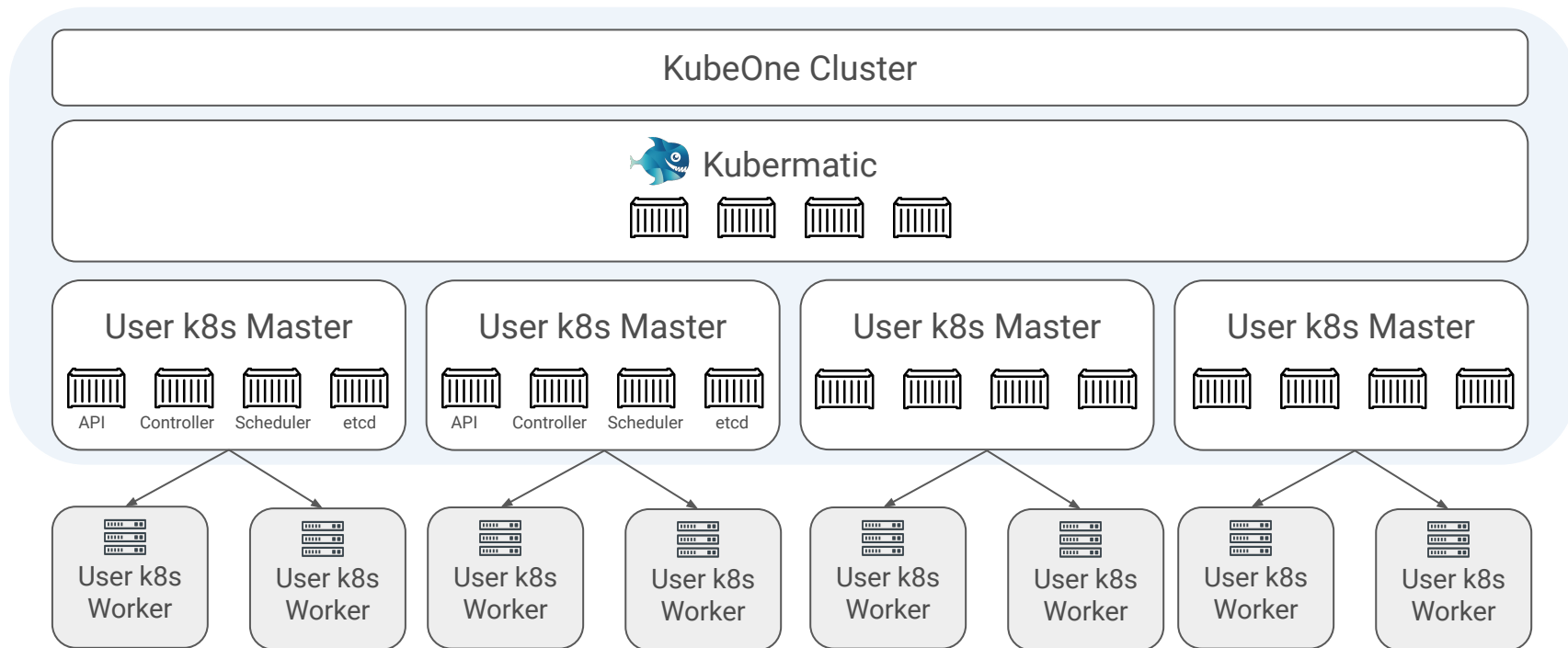
Security

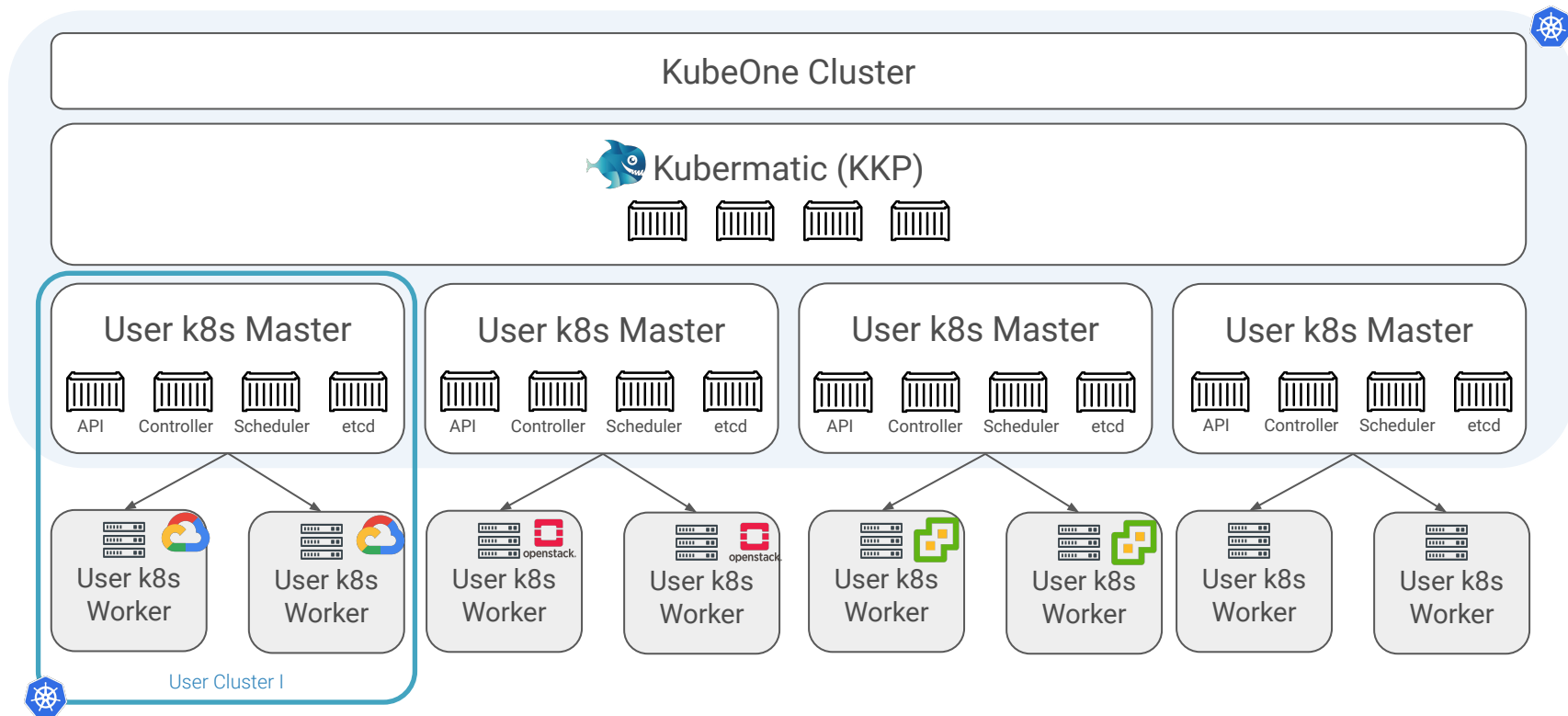


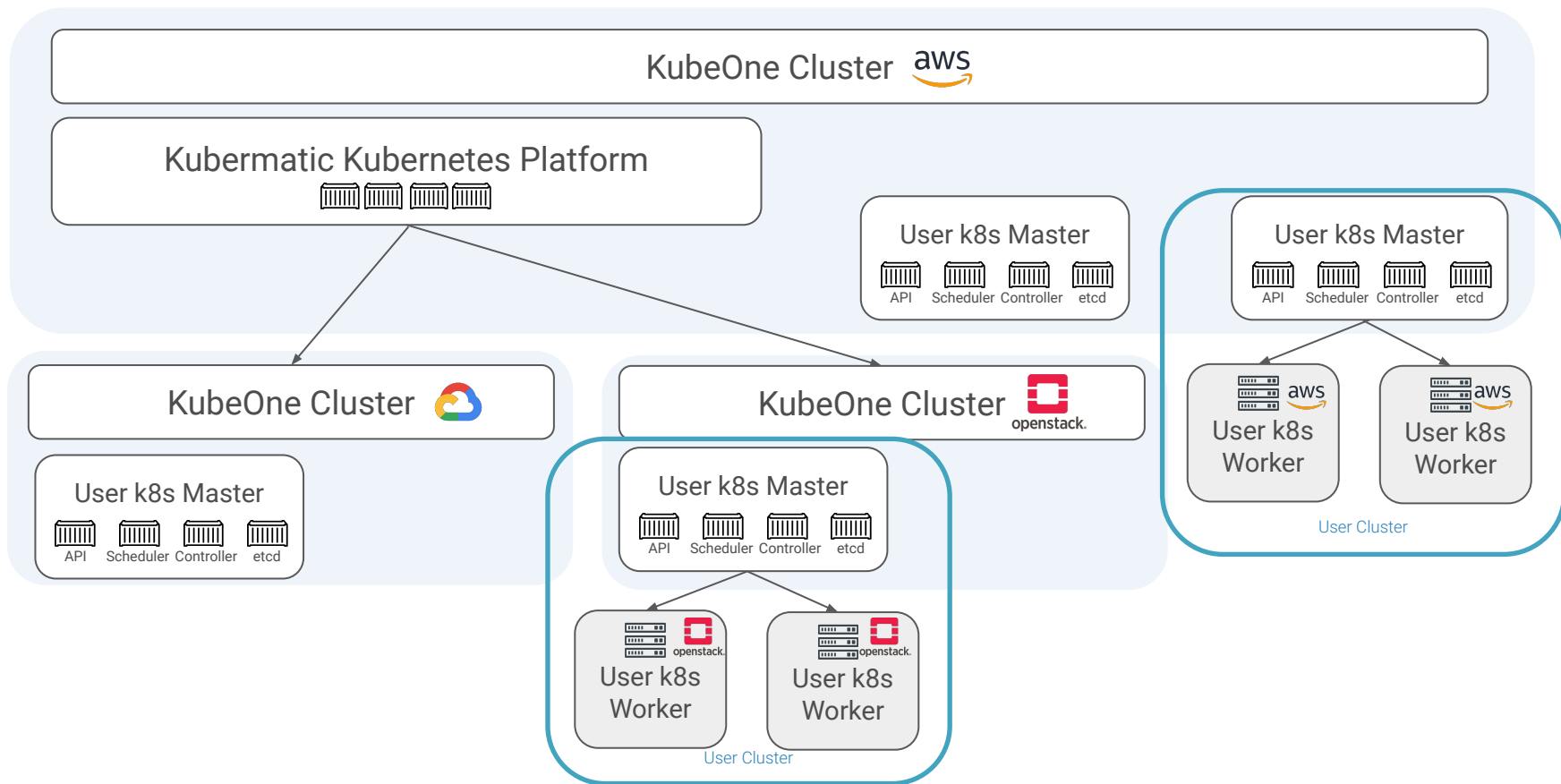
App Delivery &
Developer Experience

Multi Cluster Management

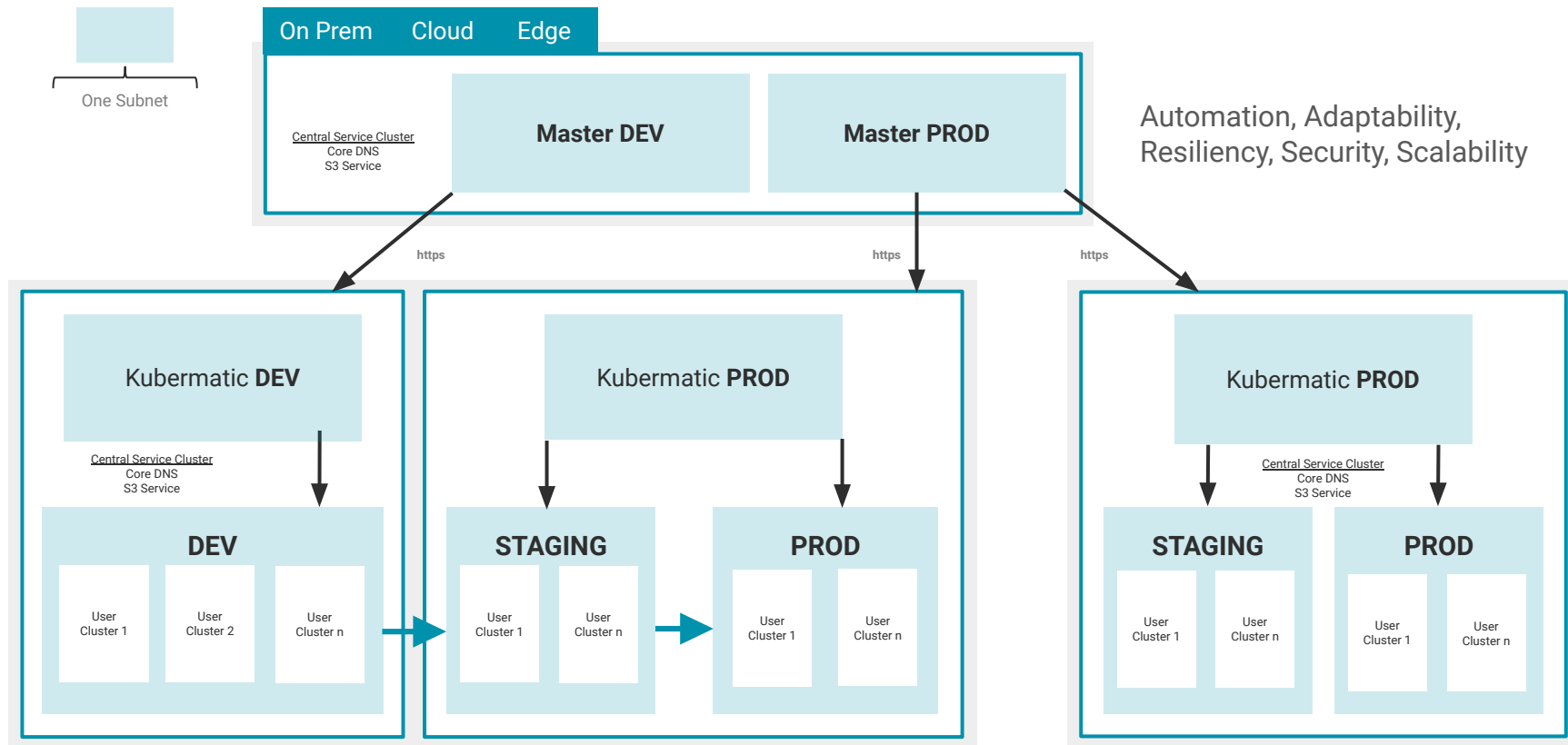
For cluster lifecycle, deployments, configuration, policies, observability, maintenance







Kubernetes Reference Architecture



Summary & Commercial plug

Cloud Orchestration with Kubernetes



Automate Tasks with several Cloud Service Providers



Compliance and Security Updates



Future-proofing apps



API management

Cloud Automation with Kubermatic



Improved security and resilience



Improved backup processes



Improved governance



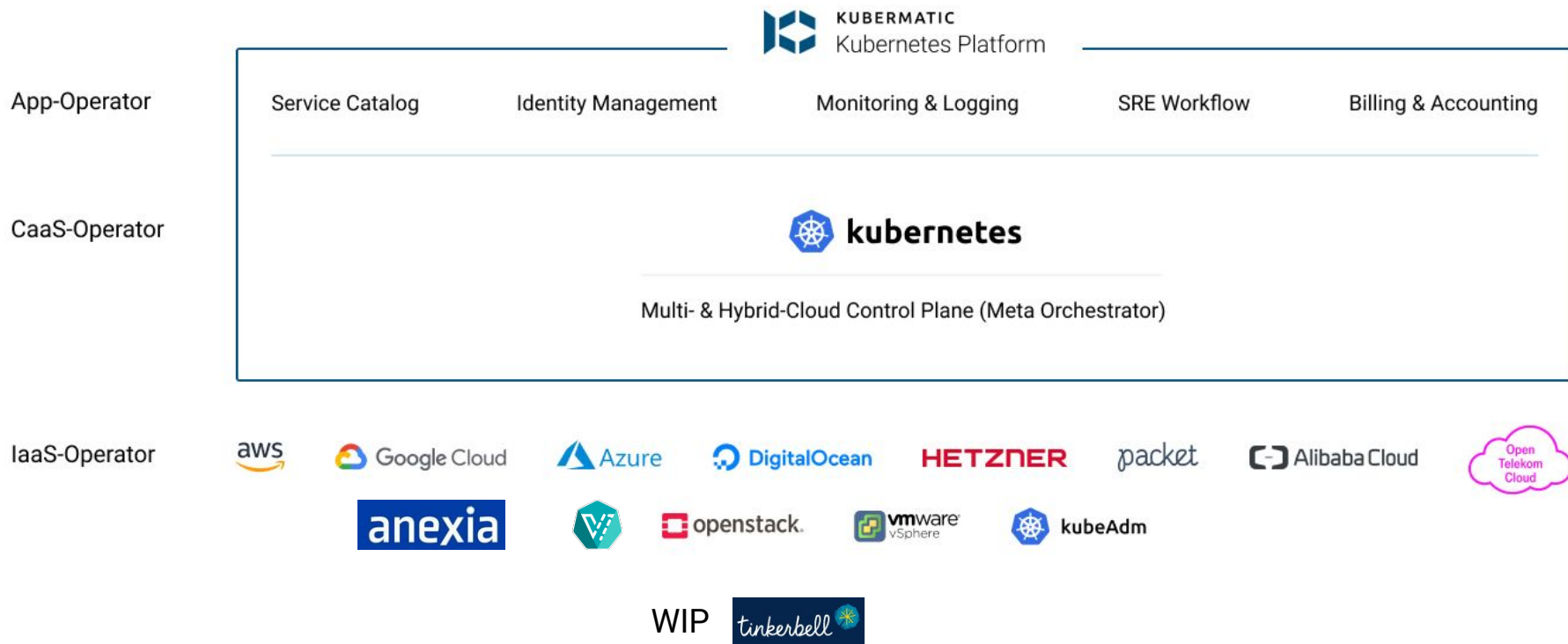
Infrastructure as Code (IaC)



Improved workload management



App development and testing



Start Your Automated Multi-cloud Ops Journey Today!

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