Kubernetes cost allocation

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About us

Ajay Tripathy is CTO of Kubecost. He was previously an infrastructure engineer with cloud experience @ Google & Yelp.

Webb Brown is CEO of Kubecost. He is a former Google PM where he led teams building monitoring & performance tools.

About Kubecost

- Launched the Kubecost open source project in 2019 to help teams with Kubernetes cost allocation.

- Company building Kubecost provides a comprehensive cost and capacity management platform for Kubernetes-based infrastructure.

- Our founding team previously built infrastructure monitoring platforms at Google.

Solving Kubernetes cost allocation unlocks a black box that enables effective cost monitoring, chargeback, and more.

It's multi-tenancy that makes this hard…
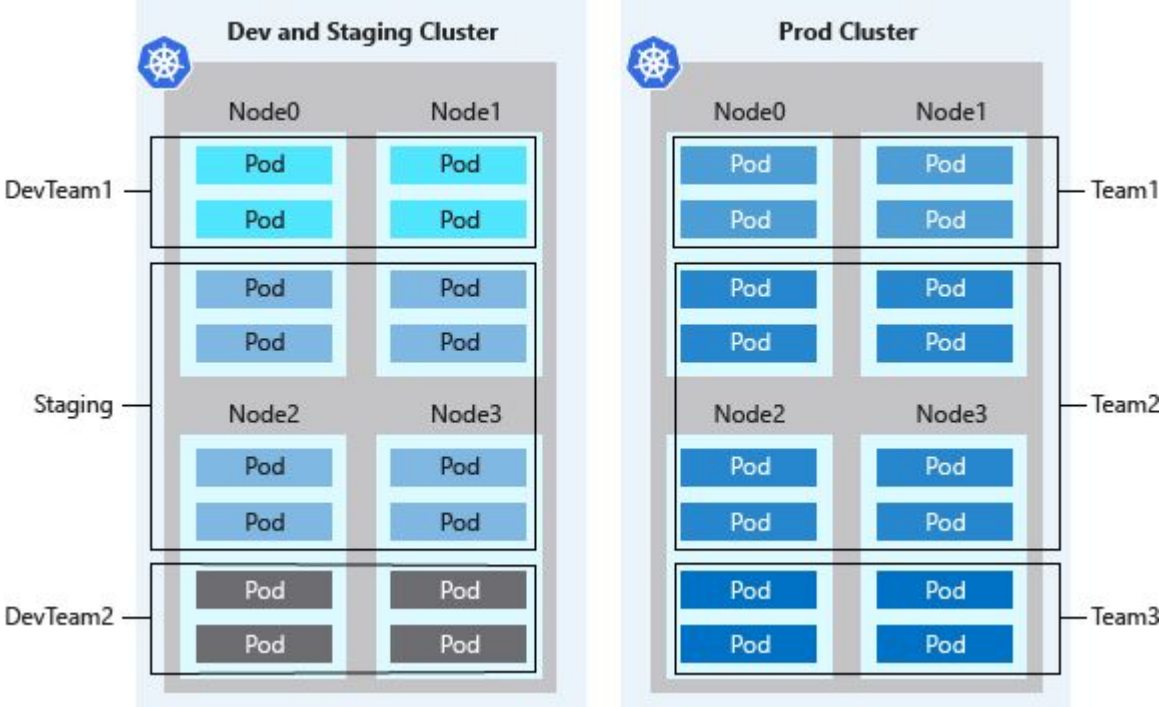
As well as increased dynamism...
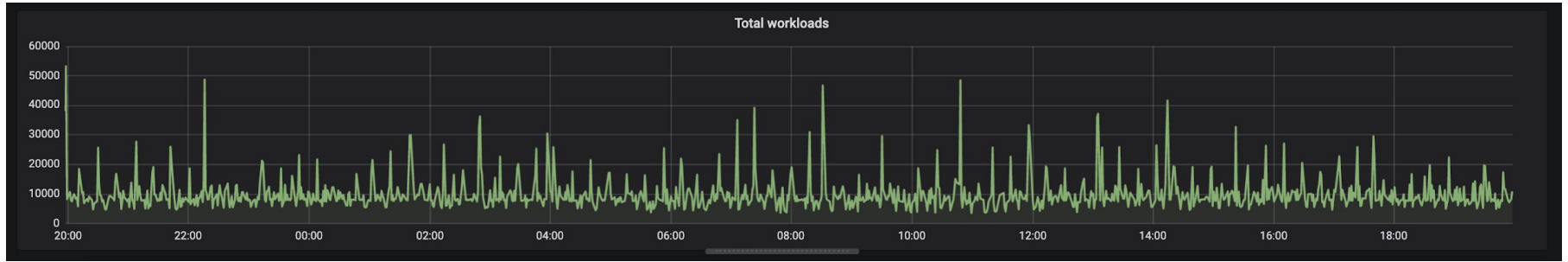
Why does it matter?

When cost allocation is a black box you get...

- Waste. It's hard to optimize without visibility.

- Suboptimal business & financial decisions.

With visibility you get...

- Catch mistakes/bugs faster.

- Culture of awareness & accountability.

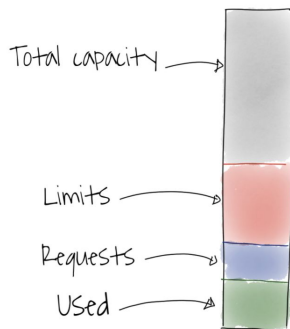- Unlock dynamic optimizations.

Determining the cost of a workload...

(1) (2) (3)

{ time in RUNNING state } * { resources consumed } * { price of resources}

Determining the cost of a workload...

1   **2**   **3**

{ time in RUNNING state } * { resources consumed } * { price of resources}

Pods

Name	Node	Status
✅ kubernetes-dashboard-7b9c7b	minikube	Running
✅ heapster-qhq6r	minikube	Running
✅ influxdb-grafana-77c7p	minikube	Running
✅ kube-scheduler-minikube	minikube	Running
✅ etcd-minikube	minikube	Running

Determining the cost of a workload...

1 **2** **3**

{ time in RUNNING state } * { resources consumed } * { price of resources}

= max(request,usage)

Determining the cost of a workload…
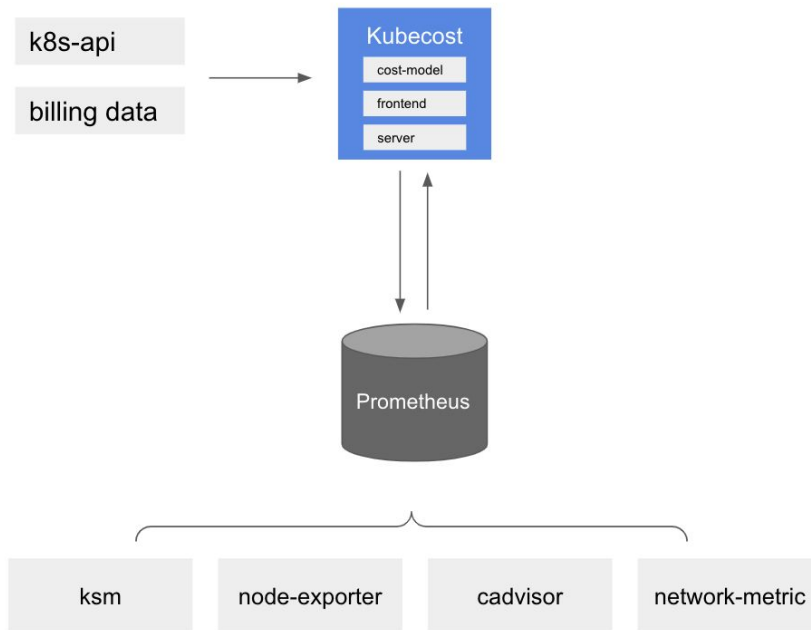
①

②

③

{ time in RUNNING state } * { resources consumed } * { price of resources}

Your cost of the resources being consumed.

DEMO

Architecture Overview

- Ingesting data from cloud billing APIs + Kubernetes APIs

- Metrics written/read from Prometheus for time series data

- Leveraging metric inputs from other Prometheus exporters

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github.com/kubecost

Or contact us at **team@kubecost.com** if we can help.