

FinOps Summit

Webb Brown, Aug 2020

About Kubecost

- Co-founders previously built infrastructure monitoring platforms at Google. Focus on cloud services and internal infrastructure.
- Last two years, focused on cost visibility & optimization solutions for Kubernetes-centric infra. Headquartered in San Francisco with distributed engineering team.
- Over 1000 deployments of Kubecost across all major cloud providers + on prem.

Kubernetes changes most everything for the actual *application* of FinOps...

New platform abstractions + tools



Evolving open source ecosystem

Pods

	Name 🌲	Node	Status 🌲
9	kubernetes-dashboard-7b9c7b	minikube	Running
0	heapster-qhq6r	minikube	Running
	influxdb-grafana-77c7p	minikube	Running
	kube-scheduler-minikube	minikube	Running
Ø	etcd-minikube	minikube	Running





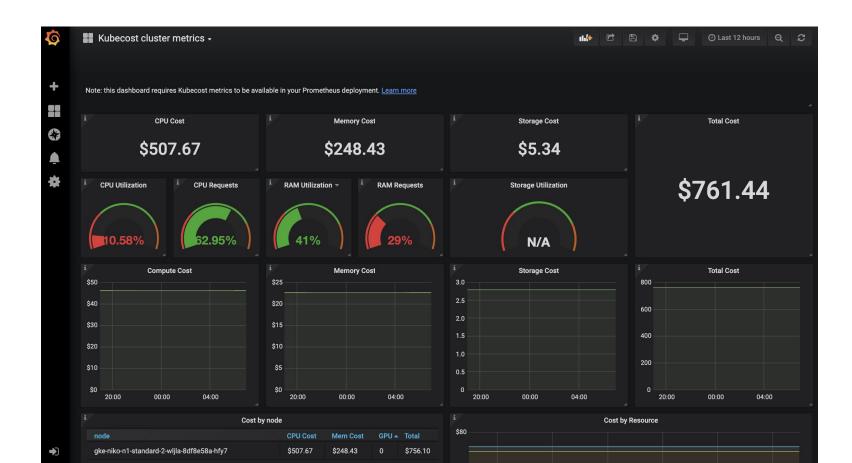


1 Embrace the right platform features + tools

- Many core platform features impact cost management & optimization
 - Admission controllers.
 - Taints & Tolerations.
 - Affinities.
 - Pod + Cluster Autoscaling.
 - Pod disruption budgets.
 - And more!
- Context matters greatly for choosing the right solutions
- Example: leveraging admission controllers (or otherwise) to define workload owners.

2 Empower engineers to make great decisions

- Developers are insanely busy, so focus on being highly targeted with requirements + recommendations + alerts.
- Allow engineers to integrate data and cost management tools into their regular workflows via tools they already find useful.
- Example: leveraging Grafana, Operators for minimal interruption



3 Leverage a growing + transparent ecosystem

- Evolving ecosystem places a new focus on Privacy + Security + Flexibility.
- Embracing ultimately leads to much more control for your team.
- Example: teams are leveraging open source technologies like AlertManager to act on real-time cost data.

Kubernetes brings new complexity to FinOps, but with it comes exciting native frameworks and tools to help us all!

Learn more

- Kubecost project @ <u>github.com/kubecost</u>
- Contact me (<u>webb@kubecost.com</u>) or our team (<u>team@kubecost.com</u>) if we can help.