Kubernetes: Up and Running: Dive into the Future of Infrastructure

By Kelsey Hightower, Brendan Burns, Joe Beda

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Legend has it that Google deploys over a billion application containers a week. How is that possible? The company decided to share the process through an open source project called Kubernetes, which replicates many of the features found in its internal system. This practical book will prepare you to take advantage of everything the Kubernetes platform has to offer.

Rather than an exact copy of its internal Borg system, Kubernetes is an upgrade based on lessons Google learned over the last decade. Kubernetes is also designed to integrate with the most robust container ecosystem: Docker. Developers and Ops practitioners can easily deploy a demo Kubernetes environment and kick the tires, but when it comes time to scale to hundreds of nodes, you're going to need a reliable field guide.

Kubernetes: Up and Running will help you:

- Learn how to make zero down-time application deployments with Kubernetes
- Track metrics and logs for every container running in your cluster
- Discover patterns for running large-scale application deployments that work for big players such as Google, Twitter, and Facebook
- Explore topics including Kubernetes components (kubelet, API, scheduler, replication controllers); containers; distributed computing; service discovery; and continuous delivery

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- Sales Rank: #56079 in Books
- Published on: 2017-04-25
- Original language: English
- Number of items: 1
- Dimensions: 9.17" h x .59" w x 7.01" l, .0 pounds
- Binding: Paperback
- 300 pages

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Editorial Review

About the Author

Kelsey Hightower has worn every hat possible throughout his career in tech, and enjoys leadership roles focused on making things happen and shipping software. Kelsey is a strong open source advocate focused on building simple tools that make people smile. When he is not slinging Go code, you can catch him giving technical workshops covering everything from programming to system administration.

Brendan Burns is a Partner Architect in Microsoft Azure, working on Azure Container Service and Azure Resource Manager. Prior to Microsoft he worked at Google in the Google Cloud Platform, where he co-founded the Kubernetes project and helped build APIs like Deployment Manager and Cloud DNS. Before working on cloud, he worked on Google's web-search infrastructure, with a focus on low-latency indexing. He has a PhD in Computer Science from the University of Massachusetts Amherst with a specialty in Robotics. He lives in Seattle with his wife Robin Sanders, their two children and a cat Mrs. Paws, who rules over their household with an iron paw.

Joe Beda is that CTO of Heptio, a startup focused on bringing Kubernetes to everyone. During his previous 10 year career at Google Joe co-founded Kuberntes and started Google Compute Engine, Google's cloud VM service. Prior to doing Cloud stuff, Joe helped build Google Talk and, while at Microsoft, worked on IE during the browser wars (Don't hate him! It makes for good discussions over drinks). He lives in Seattle with his physician wife, Rachel, 2 kids and Willie the wonder dog.

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