William Caban

Architecting and Operating OpenShift Clusters

OpenShift for Infrastructure and Operations Teams


Apress®

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To my wife, Maria, who has always supported my constantly traveling job and my urge to drive technical excellence. You are, and always will be, my perfect wife and the supermom to our wonderful children.

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To my parents, Willie and Annie, without whom none of my success would be possible.

Introduction

The rapid evolution of the Kubernetes platform and the ecosystem around it represents an excellent opportunity to drive modernization inside an organization while defining new operational paradigms.

This book is for the architects and operations teams of those organizations using OpenShift as one of their tools in their transformation. This is for the organization's hidden heroes that need to have a good understanding of how different elements interact in such a platform to be able to optimize it for their organization's specific workloads. This is not a book listing all the existing commands for every possible option, but a book explaining how the platform comes together to understand the possible locations in features into where to apply fine-tunings for their optimization.

Acknowledgments

This book is the result of my quest to find a way to provide additional technical information about *OpenShift Container Platform (OCP)* and *OKD* to answer the type of questions I see from the operations teams in our customers today. The same questions my former self had many years ago when I started migrating from upstream Kubernetes into a supported Kubernetes distribution.

This book has been possible thanks to the support from a brilliant Red Hat OpenShift-SME community, the Red Hat OpenShift Business Unit, and each one of the product managers and their teams which are the ones that make the OpenShift magic happen. From these, I would like to give a special thank you to Marc Curry, Ben Breard, Brian Harrington, Paul Morie, and William Oliveira. Thank you for the times you took to reply an e-mail or hop in a call to answer my many questions trying to understand the behind-the-scenes plumbing of the many features.

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ABOUT THE AUTHOR

William Caban

has more than 25 years of experience in IT and has been consulting and designing large-scale datacenter solutions in multiple vertical markets. He has worked for diverse customers ranging from financial institutions, healthcare institutions, and service providers. His personal motto is “Changing the world one ‘bit’ at a time.” He has written several courses and training guides in the past. This is his first book with Apress.

ABOUT THE TECHNICAL REVIEWER

James Cryer

is a Lead Principal Engineer with over 8 years of experience working with Cloud-native solutions on AWS, GCP, and Azure. James has a passion for architecting and developing highly available, fault-tolerant, and secure systems. James’ experience is broad; he has worked in a variety of sectors with companies such as the BBC, Investec Asset Management, and, more recently, Sophos. When away from his laptop, James loves to travel with his wife and child, get outdoors, and read.

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