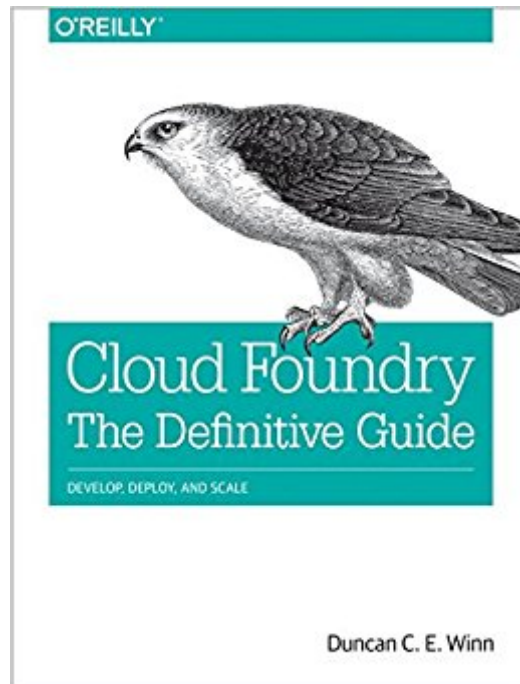


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# Cloud Foundry: The Definitive Guide: Develop, Deploy, And Scale



## Synopsis

How can Cloud Foundry help you develop and deploy business-critical applications and tasks with velocity? This practical guide demonstrates how this open source, cloud-native application platform not only significantly reduces the develop-to-deploy cycle time, but also raises the value line for application operators by changing the way applications and supporting services are deployed and run. Learn how Cloud Foundry can help you improve your product velocity by handling many of essential tasks required to run applications in production. Author Duncan Winn shows DevOps and operations teams how to configure and run Cloud Foundry at scale. You'll examine Cloud Foundry's technical concepts—including how various platform components interrelate—and learn how to choose your underlying infrastructure, define the networking architecture, and establish resiliency requirements. This book covers:

- Cloud-native concepts that make the app build, test, deploy, and scale faster
- How to deploy Cloud Foundry and the BOSH release engineering toolchain
- Concepts and components of Cloud Foundry's runtime architecture
- Cloud Foundry's routing mechanisms and capabilities
- The platform's approach to container tooling and orchestration
- BOSH concepts, deployments, components, and commands
- Basic tools and techniques for debugging the platform
- Recent and soon-to-emerge features of Cloud Foundry

## Book Information

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## Customer Reviews

Cloud Foundry layers forming a cloud-based OS. [View larger](#) This is a technically focused book intended for platform operators. Therefore, you should have some of the following basic system administrative skills:

- Know how to open a terminal window in your OS of choice
- Know how to install software tools such as command-line interfaces (CLIs)
- Know how to use secure shell (SSH) and work with virtual machines (VMs)
- Know how to work with source code from GitHub by both downloading and installing it (Mac users: [Homebrew](#) should be your go-to tool of choice here)

From the Preface Cloud Foundry is a platform that helps you develop and deploy applications and tasks with velocity. Velocity, as a vector quantity, is different from raw speed because it is direction aware. In our case, direction is based on user feedback. Application velocity allows you to adopt an iterative approach to development through repeatedly gaining fast feedback from end users. Ultimately, this approach allows you to align your products, user requirements, and expectations. This book covers Cloud Foundry's technical concepts, providing a breakdown of the various platform components and how they interrelate. It also will walk you through a typical setup of BOSH (a release-engineering tool chain) and Cloud Foundry, and unpack the broader considerations of adopting Cloud Foundry for enterprise workloads. An understanding of how Cloud Foundry works is vital if you are running business-critical applications, services, and workloads on the platform. Understanding the role of each component along with the flow of communication is vital for troubleshooting platform issues. This book is primarily aimed at Cloud Foundry operators who are responsible for installing, configuring, and operating Cloud Foundry. In addition to unpacking the various considerations required for running the technology, this book also explores the concepts surrounding Cloud Foundry. My goal is to provide the necessary content for understanding the following:

- Cloud Foundry's underlying concepts
- How Cloud Foundry works, including the flow of communication between the distributed components
- How to begin deploying BOSH and Cloud Foundry, including the key configuration decision points

With a deep passion for enterprise operations and development, Duncan has been working on Cloud Foundry for Pivotal since Pivotal formed in 2013. He currently works with numerous companies ranging from telco, health, industrial, retail and finance to help them architect hardened Cloud Foundry environments and related services to get the most out of an Agile Platform in a production setting. Prior to moving to the US, he was the EMEA Cloud Foundry Developer Advocate for Pivotal. He organized the London Cloud Foundry MeetUp and ran Pivotal's UK Field Engineering team. He is very active in the Cloud Foundry community and runs a weekly blog: [thisweekincf.com](http://thisweekincf.com).

A perfect technical guide for a Cloud Foundry operator.

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