



Using Docker: Developing and Deploying Software with Containers

Adrian Mouat

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Docker containers offer simpler, faster, and more robust methods for developing, distributing, and running software than previously available. With this hands-on guide, you'll learn *why* containers are so important, *what* you'll gain by adopting Docker, and *how* to make it part of your development process.

Ideal for developers, operations engineers, and system administrators—especially those keen to embrace a DevOps approach—Using Docker will take you from Docker and container basics to running dozens of containers on a multi-host system with networking and scheduling. The core of the book walks you through the steps needed to develop, test, and deploy a web application with Docker.

- Get started with Docker by building and deploying a simple web application
- Use Continuous Deployment techniques to push your application to production multiple times a day
- Learn various options and techniques for logging and monitoring multiple containers
- Examine networking and service discovery: how do containers find each other and how do you connect them?
- Orchestrate and cluster containers to address load-balancing, scaling, failover, and scheduling
- Secure your system by following the principles of defense-in-depth and least privilege

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Dennis Johnson:

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