



# Extending Docker

*Russ McKendrick*

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## Key Features

- Get the first book on the market that shows you how to extend the capabilities of Docker using plugins and third-party tools
- Master the skills of creating various plugins and integrating great tools in order to enhance the functionalities of Docker
- A practical and learning guide that ensures your investment in Docker becomes more valuable

## Book Description

With Docker, it is possible to get a lot of apps running on the same old servers, making it very easy to package and ship programs. The ability to extend Docker using plugins and load third-party plugins is incredible, and organizations can massively benefit from it.

In this book, you will read about what first and third party tools are available to extend the functionality of your existing Docker installation and how to approach your next Docker infrastructure deployment. We will show you how to work with Docker plugins, install it, and cover its lifecycle. We also cover network and volume plugins, and you will find out how to build your own plugin.

You'll discover how to integrate it with Puppet, Ansible, Jenkins, Flocker, Rancher, Packer, and more with third-party plugins. Then, you'll see how to use Schedulers such as Kubernetes and Amazon ECS. Finally, we'll delve into security, troubleshooting, and best practices when extending Docker.

By the end of this book, you will learn how to extend Docker and customize it based on your business requirements with the help of various tools and plugins.

## What you will learn

- Find out about Docker plugins and the problems they solve
- Gain insights into creating your own plugin
- Use Docker tools to extend the basic functionality of the core Docker engine
- Get to grips with the installation and configuration of third-party tools available to use with Docker plugins
- Install, configure, and use a scheduling service to manage the containers in your environment
- Enhance your day-to-day Docker usage through security, troubleshooting, and best practices

## About the Author

**Russ McKendrick** is an experienced solution architect who has been working in IT and related industries for the better part of 23 years. During his career, he has had varied responsibilities in a number of industries, ranging from looking after an entire IT infrastructure to providing first-line, second-line, and senior support in client-facing and internal teams for corporate organizations.

Russ works almost exclusively with Linux, using open source systems and tools across dedicated hardware, virtual machines to public and private clouds at Node4 Limited, where he heads up the Open Source

solutions team.

## Table of Contents

1. Introduction to Extending Docker
2. Introducing First-party Tools
3. Volume Plugins
4. Network Plugins
5. Building Your Own Plugin
6. Extending Your Infrastructure
7. Looking at Schedulers
8. Security, Challenges, and Conclusions

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