



# Practical DevOps

*Joakim Verona*

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## Key Features

- Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer
- Improve your organization's performance to ensure smooth production of software and services
- Deploy top-quality software and ensure software maintenance and release management with this practical guide

## Book Description

DevOps is a practical field that focuses on delivering business value as efficiently as possible. DevOps encompasses all the flows from code through testing environments to production environments. It stresses the cooperation between different roles, and how they can work together more closely, as the roots of the word imply—Development and Operations.

After a quick refresher to DevOps and continuous delivery, we quickly move on to looking at how DevOps affects architecture. You'll create a sample enterprise Java application that you'll continue to work with through the remaining chapters. Following this, we explore various code storage and build server options. You will then learn how to perform code testing with a few tools and deploy your test successfully. Next, you will learn how to monitor code for any anomalies and make sure it's running properly. Finally, you will discover how to handle logs and keep track of the issues that affect processes

## What you will learn

- Appreciate the merits of DevOps and continuous delivery and see how DevOps supports the agile process
- Understand how all the systems fit together to form a larger whole
- Set up and familiarize yourself with all the tools you need to be efficient with DevOps
- Design an application that is suitable for continuous deployment systems with DevOps in mind
- Store and manage your code effectively using different options such as Git, Gerrit, and Gitlab
- Configure a job to build a sample CRUD application
- Test the code using automated regression testing with Jenkins Selenium
- Deploy your code using tools such as Puppet, Ansible, Palletops, Chef, and Vagrant
- Monitor the health of your code with Nagios, Munin, and Graphite
- Explore the workings of Trac—a tool used for issue tracking

## About the Author

**Joakim Verona** is a consultant with a specialty in Continuous Delivery and DevOps. He has worked with all aspects of systems development since 1994. He has actively contributed as the lead implementer of complex multilayered systems such as web systems, multimedia systems, and mixed software/hardware systems. His wide-ranging technical interests led him to the emerging field of DevOps in 2004, where he has stayed ever since.

Joakim completed his masters in computer science at Linkoping Institute of Technology. He has also worked

as a consultant in a wide range of assignments in various industries, such as banking and finance, telecom, industrial engineering, press and publishing, and game development. He is also interested in the Agile field and is a certified Scrum master, Scrum product owner, and Java professional.

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