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# Continuous Delivery With Docker Containers And Java Ee

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**BRAY HODGES**

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**Dive into the core**

## DevOps strategies

Addison-Wesley

Professional

Explore the high-in demand core DevOps strategies with powerful DevOps tools such as Ansible, Jenkins, and Chef Key Features ●Get acquainted with methodologies and tools of the DevOps framework ●Perform continuous integration, delivery, deployment, and monitoring using DevOps tools ●Explore popular tools such as Git, Jenkins, Maven, Gerrit, Nexus, Selenium, and so on ●Embedded with assessments that will help you revise the concepts you have learned in this book

Book Description

DevOps is the most widely used software engineering culture and practice that aim

sat software development and operation. Continuous integration is a cornerstone technique of DevOps that merges software code updates from developers into a shared central mainline. This book takes a practical approach and covers the tools and strategies of DevOps. It starts with familiarizing you with DevOps framework and then shows how to perform continuous delivery, integration, and deployment with DevOps. You will explore DevOps process maturity frameworks and progression models with checklist templates for each phase of DevOps. You will also be familiar with agile terminology, methodology, and the

benefits accrued by an organization by adopting it. You will also get acquainted with popular tools such as Git, Jenkins ,Maven, Gerrit, Nexus, Selenium, and so on. You will learn configuration, automation, and the implementation of infrastructure automation (Infrastructure as Code) with tools such as Chef and Ansible. This book is ideal for engineers, architects, and developers, who wish to learn the core strategies of DevOps. What you will learn

- Get familiar with life cycle models, maturity states, progression and best practices of DevOps frameworks
- Learn to set up Jenkins and integrate it with Git
- Know how to build jobs and perform

testing with Jenkins

- Implement infrastructure automation (Infrastructure as Code) with tools such as Chef and Ansible
- Understand continuous monitoring process with tools such as Splunk and Nagios
- Learn how Splunk improves the code quality

Who this book is for This book is for engineers, architects, and developers, who wish to learn the core strategies of DevOps.

Apply continuous integration models, deploy applications quicker, and scale at large by putting Docker to work Packt Publishing Ltd  
Continuous Delivery with Docker and Jenkins Packt Publishing Ltd  
Docker Integration for Build Pipelines and

Application

Architecture Packt  
Publishing Ltd

GitOps and Kubernetes teaches you how to use Git and the GitOps methodology to manage a Kubernetes cluster. Summary GitOps and Kubernetes introduces a radical idea—managing your infrastructure with the same Git pull requests you use to manage your codebase. In this in-depth tutorial, you'll learn to operate infrastructures based on powerful-but-complex technologies such as Kubernetes with the same Git version control tools most developers use daily. With these GitOps techniques and best practices, you'll accelerate application development without compromising on security, easily roll

back infrastructure changes, and seamlessly introduce new team members to your automation process. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology With GitOps you use the Git version control system to organize and manage your infrastructure just like any other codebase. It's an excellent model for applications deployed as containers and pods on Kubernetes. About the book GitOps and Kubernetes teaches you how to use Git and the GitOps methodology to manage a Kubernetes cluster. The book interleaves theory with practice, presenting core Ops concepts

alongside easy-to-implement techniques so you can put GitOps into action. Learn to develop pipelines that trace changes, roll back mistakes, and audit container deployment. What's inside Managing secrets the GitOps way Controlling access with Git, Kubernetes, and Pipeline Branching, namespaces, and configuration About the reader For developers and operations engineers familiar with continuous delivery, Git, and Kubernetes. About the author Billy Yuen, Alexander Matyushentsev, Todd Ekenstam, and Jesse Suen are principal engineers at Intuit. They are widely recognized for their work in GitOps for Kubernetes. Table of Contents PART 1 -

BACKGROUND 1 Why GitOps? 2 Kubernetes & GitOps PART 2 - PATTERNS & PROCESSES 3 Environment Management 4 Pipelines 5 Deployment Strategies 6 Access Control & Security 7 Secrets 8 Observability PART 3 - TOOLS 9 Argo CD 10 Jenkins X 11 Flux  
*Hands-On Continuous Integration and Delivery* Packt Publishing Ltd  
With the help of top-notch examples and activities, this workshop helps you to get practical with Docker containers. You'll learn its usage, advantages, and best practices to make the software deployment process smoother.  
*Containerization Is the New Virtualization* Simon and Schuster

Design, implement, and execute continuous delivery pipelines with a level of flexibility, control, and ease of maintenance that was not possible with Jenkins before. With this practical book, build administrators, developers, testers, and other professionals will learn how the features in Jenkins 2 let you define pipelines as code, leverage integration with other key technologies, and create automated, reliable pipelines to simplify and accelerate your DevOps environments. Author Brent Laster shows you how Jenkins 2 is significantly different from the more traditional, web-only versions of this popular open source automation platform. If

you're familiar with Jenkins and want to take advantage of the new technologies to transform your legacy pipelines or build new modern, automated continuous delivery environments, this is your book. Create continuous delivery pipelines as code with the Jenkins domain-specific language Get practical guidance on how to migrate existing jobs and pipelines Harness best practices and new methods for controlling access and security Explore the structure, implementation, and use of shared pipeline libraries Learn the differences between declarative syntax and scripted syntax Leverage new and existing project types in Jenkins Understand and use the new Blue

Ocean graphical interface Take advantage of the capabilities of the underlying OS in your pipeline Integrate analysis tools, artifact management, and containers

**DevOps: Continuous Delivery, Integration, and Deployment with DevOps** "O'Reilly Media, Inc."

Viktor Farcic's latest book, The DevOps 2.1 Toolkit: Docker Swarm, shows you how to successfully integrate Docker Swarm into your DevOps toolset.

About This Book Expand your DevOps Toolkit with the DevOps thought leader, Viktor Farcic Build, test, deploy, and monitor services inside Docker Swarm clusters Translate your understanding to

different hosting providers like AWS, Azure, and DigitalOcean Go beyond simple deployment to explore how to create a continuous deployment process Extend the deep understanding you gained from Viktor's DevOps 2.0 Toolkit book Who This Book Is For This book is for professionals interested in the full microservices life cycle combined with continuous deployment and containers. Target audience could be architects who want to know how to design their systems around microservices. It could be DevOps wanting to know how to apply modern configuration management practices and continuously deploy applications packed in containers. It

is for developers who would like to take the process back into their hands as well as for managers who would like to gain a better understanding of the process used to deliver software from the beginning to the end. This book is for everyone wanting to know more about the software development life cycle starting from requirements and design, through the development and testing all the way until deployment and post-deployment phases. We'll create the processes taking into account the best practices developed by and for some of the biggest companies. What You Will Learn Learn all aspects of Docker Swarm from building, testing, deploying, and

monitoring services inside Docker Swarm clusters, available since Docker 1.12. Master the deeper logic of DevOps with Viktor, so that you can successfully apply that logic across any specific set of tools you're working with. Translate a deep understanding to different hosting providers like AWS, Azure, DigitalOcean, among others. You'll go beyond simple deployment: you will explore with Viktor how to create a continuous deployment process. Accomplish zero-downtime deployments, and what to do in case of a failover. Know how to run services at scale, how to monitor the systems, and how to make it heal itself. In Detail Viktor Farcic's



latest book, The DevOps 2.1 Toolkit: Docker Swarm, takes you deeper into one of the major subjects of his international best seller, The DevOps 2.0 Toolkit, and shows you how to successfully integrate Docker Swarm into your DevOps toolset. Viktor shares with you his expert knowledge in all aspects of building, testing, deploying, and monitoring services inside Docker Swarm clusters. You'll go through all the tools required for running a cluster. You'll travel through the whole process with clusters running locally on a laptop. Once you're confident with that outcome, Viktor shows you how to translate your experience to different hosting providers like AWS,

Azure, and DigitalOcean. Viktor has updated his DevOps 2.0 framework in this book to use the latest and greatest features and techniques introduced in Docker. We'll go through many practices and even more tools. While there will be a lot of theory, this is a hands-on book. You won't be able to complete it by reading it on the metro on your way to work. You'll have to read this book while in front of the computer and get your hands dirty. Style and approach We'll go through many practices and even more tools. While there will be a lot of theory, this is a hands-on book. You'll have to read this book while in front of the computer and get your hands

dirty. The goal is not to master one particular set of tools, but to learn the logic behind them so that you can apply it to your job in various contexts.

### The DevOps 2.0

Toolkit Simon and Schuster

Updated for Docker Community Edition v18.09! Docker book designed for SysAdmins, SREs, Operations staff, Developers and DevOps who are interested in deploying the open source container service Docker. In this book, we'll walk you through installing, deploying, managing, and extending Docker. We're going to do that by first introducing you to the basics of Docker and its components. Then we'll start to use Docker to build

containers and services to perform a variety of tasks. We're going to take you through the development lifecycle, from testing to production, and see where Docker fits in and how it can make your life easier. We'll make use of Docker to build test environments for new projects, demonstrate how to integrate Docker with continuous integration workflow, and then how to build application services and platforms. Finally, we'll show you how to use Docker's API and how to extend Docker yourself. We'll teach you how to: \* Install Docker. \* Take your first steps with a Docker container. \* Build Docker images. \* Manage and share Docker images. \* Run and manage more

complex Docker containers. \* Deploy Docker containers as part of your testing pipeline. \* Build multi-container applications and environments. \* Learn about orchestration using Compose and Swarm for the orchestration of Docker containers and Consul for service discovery. \* Explore the Docker API. \* Getting Help and Extending Docker. Pipeline as Code Packt Publishing Ltd Explore the core functionality of containerizing your applications and making them production-ready Key Features Grasp basic to advanced Docker concepts with this comprehensive guide Get acquainted with Docker containers, Docker images,

orchestrators, cloud integration, and networking Learn to simplify dependencies and deploy and test containers in production Book Description Containers enable you to package an application with all the components it needs, such as libraries and other dependencies, and ship it as one package. Docker containers have revolutionized the software supply chain in both small and large enterprises. Starting with an introduction to Docker fundamentals and setting up an environment to work with it, you'll delve into concepts such as Docker containers, Docker images, and Docker Compose. As you progress, the book will help you explore deployment,

orchestration, networking, and security. Finally, you'll get to grips with Docker functionalities on public clouds such as Amazon Web Services (AWS), Azure, and Google Cloud Platform (GCP), and learn about Docker Enterprise Edition features. Additionally, you'll also discover the benefits of increased security with the use of containers. By the end of this Docker book, you'll be able to build, ship, and run a containerized, highly distributed application on Docker Swarm or Kubernetes, running on-premises or in the cloud. What you will learn Containerize your traditional or microservice-based applications Develop, modify, debug, and test an application

running inside a container Share or ship your application as an immutable container image Build a Docker Swarm and a Kubernetes cluster in the cloud Run a highly distributed application using Docker Swarm or Kubernetes Update or rollback a distributed application with zero downtime Secure your applications with encapsulation, networks, and secrets Troubleshoot a containerized, highly distributed application in the cloud Who this book is for This book is for Linux professionals, system administrators, operations engineers, DevOps engineers, and developers or stakeholders who are interested in getting started with Docker from scratch. No prior experience with Docker

containers is required. Users with a Linux system would be able to take full advantage of this book.

Continuous Deployment to Kubernetes: Continuously deploying applications with Jenkins to a Kubernetes cluster Springer

Automated testing and deploying of containers  
About This Video This comprehensive video tutorial will take you through the various methods of logging and monitoring containers. Learn how to receive metrics from log files Set up continuous delivery systems to automate testing and deploying Docker containers In Detail Continuous Delivery is a process whereby code changes are automatically built, tested, and prepared

for release to production. This video course starts by showing you how to ship logs to a central location for easier viewing and configure monitoring services to check the health of your containers and services with AWS, Azure, and Google. You will begin by designing toolsets and components which will make up the Continuous Deployment pipeline of the future You will learn about logging services such as AWS, Google, and Azure. You will also learn why centralized logging is important and how container logging differs from logging from physical servers. You will then master monitoring containers and see some examples involving

monitoring dashboards that will be installed in this course. Toward the end of the course, you will explore how monitoring and logging overlap, and how metrics can be retrieved from log files. All the code and supporting files for this course are available on GitHub at <https://github.com/PacktPublishing/Creating-Continuous-Deployment-Pipeline-for-Cloud-Platforms> Downloading the example code for this course: You can download the example code files for all Packt video courses you have purchased from your account at <http://www.PacktPub.com> . If you purchased this course elsewhere, you can visit <http://www.PacktPub.com/support> and

register to have the files e-mailed directly to you.

*A project-based guide*  
Continuous Delivery with Docker and Jenkins

An exploration of continuous deployment to a Kubernetes cluster, using a wide range of Kubernetes platforms with instructions on how to develop a pipeline on a few of the most commonly used CI/CD platforms. Key Features The fifth book of DevOps expert Viktor Farcic's bestselling DevOps Toolkit series, with a discussion of the difference between continuous delivery vs. continuous deployment, and which is best for the user Guides readers through the continuous deployment process

using Jenkins in a Kubernetes cluster Provides an overview of the best practices for building, testing, and deploying applications through fully automated pipelines. Book Description Building on The DevOps 2.3 Toolkit: Kubernetes, Viktor Farcic brings his latest exploration of the Docker technology as he records his journey to continuously deploying applications with Jenkins into a Kubernetes cluster. The DevOps 2.4 Toolkit: Continuously Deploying Applications with Jenkins to a Kubernetes Cluster is the latest book in Viktor Farcic's series that helps you build a full DevOps Toolkit. This book guides readers through the process of building,

testing, and deploying applications through fully automated pipelines. Within this book, Viktor will cover a wide-range of emerging topics, including an exploration of continuous delivery and deployment in Kubernetes using Jenkins. It also shows readers how to perform continuous integration inside these clusters, and discusses the distribution of Kubernetes applications, as well as installing and setting up Jenkins. Work with Viktor and dive into the creation of self-adaptive and self-healing systems within Docker. What you will learn Gain an understanding of continuous deployment Learn how to build, test, and deploy

applications into Kubernetes Execute continuous integration inside containers Who this book is for Readers with an intermediate level understanding of Kubernetes and hands-on experience.

*DevOps with*

*Kubernetes* Apress

Understand various tools and practices for building a continuous integration and delivery pipeline effectively Key Features Get up and running with the patterns of continuous integration Learn

Jenkins UI for developing plugins and build an effective Jenkins pipeline

Automate CI/CD with command-line tools and scripts Book

Description Hands-On Continuous Integration and Delivery starts with the fundamentals

of continuous integration (CI) and continuous delivery (CD) and where it fits in the DevOps ecosystem. You will explore the importance of stakeholder collaboration as part of CI/CD. As you make your way through the chapters, you will get to grips with Jenkins UI, and learn to install Jenkins on different platforms, add plugins, and write freestyle scripts. Next, you will gain hands-on experience of developing plugins with Jenkins UI, building the Jenkins 2.0 pipeline, and performing Docker integration. In the concluding chapters, you will install Travis CI and Circle CI and carry out scripting, logging, and debugging, helping you to acquire a broad



knowledge of CI/CD with Travis CI and CircleCI. By the end of this book, you will have a detailed understanding of best practices for CI/CD systems and be able to implement them with confidence. What you will learn

Install Jenkins on multiple operating systems

Work with Jenkins freestyle scripts, pipeline syntax, and methodology

Explore Travis CI build life cycle events and multiple build languages

Master the Travis CI CLI (command-line interface) and automate tasks with the CLI

Use CircleCI CLI jobs and work with pipelines

Automate tasks using CircleCI CLI and learn to debug and troubleshoot

Learn open source tooling such as Git and GitHub

Install Docker and learn concepts in shell scripting

Who this book is for

Hands-On Continuous Integration and Delivery is for system administrators, DevOps engineers, and build and release engineers who want to understand the concept of CI and gain hands-on experience working with prominent tools in the CI ecosystem.

Basic knowledge of software delivery is an added advantage.

### **Docker in Action**

"O'Reilly Media, Inc."

Apply Kubernetes beyond the basics of Kubernetes clusters by implementing IAM using OIDC and Active Directory, Layer 4 load balancing using MetalLB, advanced service integration, security, auditing, and CI/CD

Key Features\*

Find out how to add enterprise features to a Kubernetes cluster with theory and exercises to guide you\* Understand advanced topics including load balancing, externalDNS, IDP integration, security, auditing, backup, and CI/CD\* Create development clusters for unique testing requirements, including running multiple clusters on a single server to simulate an enterprise environmentBook DescriptionContainerization has changed the DevOps game completely, with Docker and Kubernetes playing important roles in altering the flow of app creation and deployment. This book will help you acquire the knowledge and tools required to

integrate Kubernetes clusters in an enterprise environment.The book begins by introducing you to Docker and Kubernetes fundamentals, including a review of basic Kubernetes objects. You'll then get to grips with containerization and understand its core functionalities, including how to create ephemeral multinode clusters using kind. As you make progress, you'll learn about cluster architecture, Kubernetes cluster deployment, and cluster management, and get started with application deployment. Moving on, you'll find out how to integrate your container to a cloud platform and integrate tools including

MetalLB, externalDNS, OpenID connect (OIDC), pod security policies (PSPs), Open Policy Agent (OPA), Falco, and Velero. Finally, you will discover how to deploy an entire platform to the cloud using continuous integration and continuous delivery (CI/CD). By the end of this Kubernetes book, you will have learned how to create development clusters for testing applications and Kubernetes components, and be able to secure and audit a cluster by implementing various open-source solutions including OpenUnison, OPA, Falco, Kibana, and Velero. What you will learn\* Create a multinode Kubernetes cluster using kind\* Implement Ingress, MetalLB, and

ExternalDNS\* Configure a cluster OIDC using impersonation\* Map enterprise authorization to Kubernetes\* Secure clusters using PSPs and OPA\* Enhance auditing using Falco and EFK\* Back up your workload for disaster recovery and cluster migration\* Deploy to a platform using Tekton, GitLab, and ArgoCD Who this book is for This book is for anyone interested in DevOps, containerization, and going beyond basic Kubernetes cluster deployments. DevOps engineers, developers, and system administrators looking to enhance their IT career paths will also find this book helpful. Although some prior experience with Docker and Kubernetes is

recommended, this book includes a Kubernetes bootcamp that provides a description of Kubernetes objects to help you if you are new to the topic or need a refresher.

### **Docker for**

### **Developers** Packt

Publishing Ltd

Run Docker on AWS

and build real-world, secure, and scalable container platforms on cloud

Key Features

Configure Docker for

the ECS environment

Integrate Docker with

different AWS tools

Implement container

networking and

deployment at scale

Book Description Over

the last few years,

Docker has been the

gold standard for

building and

distributing container

applications. Amazon

Web Services (AWS) is

a leader in public cloud computing, and was the first to offer a managed container platform in the form of the Elastic Container Service (ECS). Docker on Amazon Web Services starts with the basics of containers, Docker, and AWS, before teaching you how to install Docker on your local machine and establish access to your AWS account. You'll then dig deeper into the ECS, a native container management platform provided by AWS that simplifies management and operation of your Docker clusters and applications for no additional cost. Once you have got to grips with the basics, you'll solve key operational challenges, including secrets management and auto-scaling your

infrastructure and applications. You'll explore alternative strategies for deploying and running your Docker applications on AWS, including Fargate and ECS Service Discovery, Elastic Beanstalk, Docker Swarm and Elastic Kubernetes Service (EKS). In addition to this, there will be a strong focus on adopting an Infrastructure as Code (IaC) approach using AWS CloudFormation. By the end of this book, you'll not only understand how to run Docker on AWS, but also be able to build real-world, secure, and scalable container platforms in the cloud. What you will learn Build, deploy, and operate Docker applications using AWS Solve key operational

challenges, such as secrets management Exploit the powerful capabilities and tight integration of other AWS services Design and operate Docker applications running on ECS Deploy Docker applications quickly, consistently, and reliably using IaC Manage and operate Docker clusters and applications for no additional cost Who this book is for Docker on Amazon Web Services is for you if you want to build, deploy, and operate applications using the power of containers, Docker, and Amazon Web Services. Basic understanding of containers and Amazon Web Services or any other cloud provider will be helpful, although no previous experience of working

with these is required.  
*Pro DevOps with Google Cloud Platform*  
 Packt Publishing Ltd  
 Create a complete continuous delivery process using modern DevOps tools such as Docker, Jenkins, Kubernetes, Ansible, Terraform, and many more  
 Key Features:  
 Build reliable and secure applications using Docker containers  
 Create a highly available environment to scale Jenkins and your services using Kubernetes  
 Automate your release process end-to-end  
 Book Description: This updated third edition of *Continuous Delivery with Docker and Jenkins* will explain the advantages of combining Jenkins and Docker to improve the continuous integration

and delivery process of app development. You'll start by setting up a Docker server and configuring Jenkins on it. Next, you'll discover steps for building applications and microservices on Dockerfiles and integrating them with Jenkins using continuous delivery processes such as continuous integration, automated acceptance testing, configuration management, and Infrastructure as Code. Moving ahead, you'll learn how to ensure quick application deployment with Docker containers, along with scaling Jenkins using Kubernetes. Later, you'll explore how to deploy applications using Docker images and test them with Jenkins. Toward the

concluding chapters, the book will focus on missing parts of the CD pipeline, such as the environments and infrastructure, application versioning, and non-functional testing. By the end of this continuous integration and continuous delivery book, you'll have gained the skills you need to enhance the DevOps workflow by integrating the functionalities of Docker and Jenkins.

What You Will Learn:

- Grasp Docker fundamentals and dockerize applications for the CD process
- Understand how to use Jenkins on-premises and in the cloud
- Scale a pool of Docker servers using Kubernetes
- Write acceptance tests using Cucumber
- Run tests in

the Docker ecosystem using Jenkins Provision your servers and infrastructure using Ansible and Terraform Publish a built Docker image to a Docker registry Deploy cycles of Jenkins pipelines using community best practices

Who this book is for: The book is for DevOps engineers, system administrators, Docker professionals, or anyone who wants to explore the power of working with Docker and Jenkins together.

No prior knowledge of DevOps is required to get started.

[With Docker, Jenkins, and Kubernetes](#) Simon and Schuster Automating the Continuous Deployment Pipeline with Containerized Microservices About This Book\* First principles of devops,

Ansible, Docker, Kubernetes, microservices\* Architect your software in a better and more efficient way with microservices packed as immutable containers\* Practical guide describing an extremely modern and advanced devops toolchain that can be improved continuously Who This Book Is For If you are an intermediate-level developer who wants to master the whole microservices development and deployment lifecycle using some of the latest and greatest practices and tools, this is the book for you. Familiarity with the basics of Devops and Continuous Deployment will be useful. What You Will Learn \* Get to grips

with the fundamentals of Devops\* Architect efficient software in a better and more efficient way with the help of microservices\* Use Docker, Kubernetes, Ansible, Ubuntu, Docker Swarm and more\* Implement fast, reliable and continuous deployments with zero-downtime and ability to roll-back\* Learn about centralized logging and monitoring of your cluster\* Design self-healing systems capable of recovery from both hardware and software failures In Detail Building a complete modern devops toolchain requires not only the whole microservices development and a complete deployment lifecycle, but also the latest and greatest practices and tools.



Victor Faric argues from first principles how to build a devops toolchain. This book shows you how to chain together Docker, Kubernetes, Ansible, Ubuntu, and other tools to build the complete devops toolkit. Style and approach This book follows a unique, hands-on approach familiarizing you to the Devops 2.0 toolkit in a very practical manner. Although there will be a lot of theory, you won't be able to complete this book by reading it in a metro on a way to work. You'll need to be in front of your computer and get your hands dirty. [Kubernetes and Docker - an Enterprise Guide](#) Packt Publishing Unleash the combination of Docker and Jenkins in order to

enhance the DevOps workflow About This Book Build reliable and secure applications using Docker containers. Create a complete Continuous Delivery pipeline using Docker, Jenkins, and Ansible. Deliver your applications directly on the Docker Swarm cluster. Create more complex solutions using multi-containers and database migrations. Who This Book Is For This book is indented to provide a full overview of deep learning. From the beginner in deep learning and artificial intelligence to the data scientist who wants to become familiar with Theano and its supporting libraries, or have an extended understanding of deep neural nets. Some basic skills in Python

programming and computer science will help, as well as skills in elementary algebra and calculus. What You Will Learn Get to grips with docker fundamentals and how to dockerize an application for the Continuous Delivery process Configure Jenkins and scale it using Docker-based agents Understand the principles and the technical aspects of a successful Continuous Delivery pipeline Create a complete Continuous Delivery process using modern tools: Docker, Jenkins, and Ansible Write acceptance tests using Cucumber and run them in the Docker ecosystem using Jenkins Create multi-container applications using Docker Compose Managing database

changes inside the Continuous Delivery process and understand effective frameworks such as Cucumber and Flyweight Build clustering applications with Jenkins using Docker Swarm Publish a built Docker image to a Docker Registry and deploy cycles of Jenkins pipelines using community best practices In Detail The combination of Docker and Jenkins improves your Continuous Delivery pipeline using fewer resources. It also helps you scale up your builds, automate tasks and speed up Jenkins performance with the benefits of Docker containerization. This book will explain the advantages of combining Jenkins and Docker to improve the continuous integration

and delivery process of app development. It will start with setting up a Docker server and configuring Jenkins on it. It will then provide steps to build applications on Docker files and integrate them with Jenkins using continuous delivery processes such as continuous integration, automated acceptance testing, and configuration management. Moving on you will learn how to ensure quick application deployment with Docker containers along with scaling Jenkins using Docker Swarm. Next, you will get to know how to deploy applications using Docker images and testing them with Jenkins. By the end of the book, you will be enhancing the DevOps workflow by integrating

the functionalities of Docker and Jenkins. Style and approach The book is aimed at DevOps Engineers, developers and IT Operations who want to enhance the DevOps culture using Docker and Jenkins.

*Create secure applications by building complete CI/CD pipelines, 2nd Edition* Addison-Wesley Professional

Summary The best way to learn microservices development is to build something!

Bootstrapping Microservices with Docker, Kubernetes, and Terraform guides you from zero through to a complete microservices project, including fast prototyping, development, and deployment. You'll get your feet wet using

industry-standard tools as you learn and practice the practical skills you'll use for every microservices application. Following a true bootstrapping approach, you'll begin with a simple, familiar application and build up your knowledge and skills as you create and deploy a real microservices project. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Taking microservices from proof of concept to production is a complex, multi-step operation relying on tools like Docker, Terraform, and Kubernetes for packaging and deployment. The best way to learn the process is to build a

project from the ground up, and that's exactly what you'll do with this book! About the book In Bootstrapping Microservices with Docker, Kubernetes, and Terraform, author Ashley Davis lays out a comprehensive approach to building microservices. You'll start with a simple design and work layer-by-layer until you've created your own video streaming application. As you go, you'll learn to configure cloud infrastructure with Terraform, package microservices using Docker, and deploy your finished project to a Kubernetes cluster. What's inside Developing and testing microservices applications Working with cloud providers Applying automated

testing Implementing infrastructure as code and setting up a continuous delivery pipeline Monitoring, managing, and troubleshooting About the reader Examples are in JavaScript. No experience with microservices, Kubernetes, Terraform, or Docker required. About the author Ashley Davis is a software developer, entrepreneur, stock trader, and the author of Manning's Data Wrangling with JavaScript. Table of Contents 1 Why microservices? 2 Creating your first microservice 3 Publishing your first microservice 4 Data management for microservices 5 Communication between microservices 6 Creating your

production environment 7 Getting to continuous delivery 8 Automated testing for microservices 9 Exploring FlixTube 10 Healthy microservices 11 Pathways to scalability Docker and Kubernetes for Java Developers Packt Publishing Book + Content Update Program "Beyond just describing the basics, this book dives into best practices every aspiring microservices developer or architect should know." —Foreword by Corey Sanders, Partner Director of Program Management, Azure Microservice-based applications enable unprecedented agility and ease of management, and Docker containers are ideal for building them. Microsoft Azure offers

all the foundational technology and higher-level services you need to develop and run any microservices application.

Microservices with Docker on Microsoft Azure brings together essential knowledge for creating these applications from the ground up, or incrementally deconstructing monolithic applications over time. The authors draw on their pioneering experience helping to develop Azure's microservices features and collaborating with Microsoft product teams who've relied on microservices architectures for years. They illuminate the benefits and challenges of microservices development and

share best practices all developers and architects should know. You'll gain hands-on expertise through a detailed sample application, downloadable at [github.com/flakio/flakio](https://github.com/flakio/flakio). Step by step, you'll walk through working with services written in Node.js, Go, and ASP.NET 5, using diverse data stores (mysql, elasticsearch, block storage). The authors guide you through using Docker Hub as a service registry, and Microsoft Azure Container service for cluster management and service orchestration. Coverage includes: Recognizing how microservices architectures are different, and when they make sense

Understanding Docker containers in the context of microservices architectures Building, pulling, and layering Docker images Working with Docker volumes, containers, images, tags, and logs Using Docker Swarm, Docker Compose, and Docker Networks Creating Docker hosts using the Azure portal, Azure Resource Manager, the command line, docker-machine, or locally via Docker toolbox Establishing development and DevOps environments to support microservices applications Making the most of Docker's continuous delivery options Using Azure's cluster and container orchestration capabilities to operate and scale containerized microservices applications with maximum resilience Monitoring microservices applications with Azure Diagnostics, Visual Studio Application Insights, and Microsoft Operations Management Suite Developing microservices applications faster and more effectively with Azure Service Fabric An extensive sample application demonstrating the microservices concepts discussed throughout the book is available online In addition, this book is part of InformIT's exciting new Content Update Program, which provides content updates for major technology improvements! As

significant updates are made to Docker and Azure, sections of this book will be updated or new sections will be added to match the updates to the technologies. As updates become available, they will be delivered to you via a free Web Edition of this book, which can be accessed with any Internet connection. To learn more, visit [informit.com/cup](http://informit.com/cup). How to access the Web Edition: Follow the instructions inside to learn how to register your book to access the FREE Web Edition. *Microservices with Docker on Microsoft Azure (includes Content Update Program)* Simon and Schuster  
Create generic pipelines to reduce your overall DevOps

workload and allow your team to deliver faster. This book helps you get up to speed on the pros and cons of generic pipeline methodology, and learn to combine shell scripts and Docker to build generic pipelines. In today's world of micro-services and agile practices, DevOps teams need to move as fast as feature teams. This can be extremely challenging if you're creating multiple pipelines per application or tech stack. What if your feature teams could utilize a generic pipeline that could build, test, and deploy any application, regardless of tech stack? What if that pipeline was also cloud and platform agnostic? Too good to be true? Well think again!



Generic Pipelines Using Docker explores the principles and implementations that allow you to do just that. You will learn from real-world examples and reusable code. After reading this book you will have the knowledge to build generic pipelines that any team can use.

**What You'll Learn**

- Explore the pros and cons of generic pipeline methodology
- Combine shell scripts and Docker to build a generic pipeline
- Implement a pipeline across CI/CD platforms
- Build a pipeline that lends itself well to both centralized and federated DevOps teams
- Construct a modular pipeline with components that can be added, removed, or replaced as needed

**Who This Book Is For**

Professionals who use DevOps or are part of a DevOps team, and are seeking ways to streamline their pipelines and drive more deployments while using less code

Continuous Delivery with Docker and Jenkins Packt Publishing

Create a complete Continuous Delivery process using modern DevOps tools such as Docker, Kubernetes, Jenkins, Docker Hub, Ansible, GitHub and many more. Key Features

- Build reliable and secure applications using Docker containers.
- Create a highly available environment to scale a Docker servers using Kubernetes
- Implement advance continuous delivery process by parallelizing the

pipeline tasks Book Description Continuous Delivery with Docker and Jenkins, Second Edition will explain the advantages of combining Jenkins and Docker to improve the continuous integration and delivery process of an app development. It will start with setting up a Docker server and configuring Jenkins on it. It will then provide steps to build applications on Docker files and integrate them with Jenkins using continuous delivery processes such as continuous integration, automated acceptance testing, and configuration management. Moving on, you will learn how to ensure quick application deployment with Docker containers along with scaling Jenkins using

Kubernetes. Next, you will get to know how to deploy applications using Docker images and testing them with Jenkins. Towards the end, the book will touch base with missing parts of the CD pipeline, which are the environments and infrastructure, application versioning, and nonfunctional testing. By the end of the book, you will be enhancing the DevOps workflow by integrating the functionalities of Docker and Jenkins. What you will learn Get to grips with docker fundamentals and how to dockerize an application for the CD process Learn how to use Jenkins on the Cloud environments Scale a pool of Docker servers using Kubernetes Create multi-container

applications using  
Docker Compose Write  
acceptance tests using  
Cucumber and run  
them in the Docker  
ecosystem using  
Jenkins Publish a built  
Docker image to a  
Docker Registry and  
deploy cycles of  
Jenkins pipelines using  
community best  
practices Who this

book is for The book  
targets DevOps  
engineers, system  
administrators, docker  
professionals or any  
stakeholders who  
would like to explore  
the power of working  
with Docker and  
Jenkins together. No  
prior knowledge of  
DevOps is required for  
this book.