
Master Jenkins Ci For Devops And Developers Udemy

Getting the books **Master Jenkins Ci For Devops And Developers Udemy** now is not type of inspiring means. You could not isolated going bearing in mind books addition or library or borrowing from your associates to right to use them. This is an no question simple means to specifically acquire lead by on-line. This online pronouncement Master Jenkins Ci For Devops And Developers Udemy can be one of the options to accompany you considering having further time.

It will not waste your time. bow to me, the e-book will completely proclaim you further thing to read. Just invest tiny times to edit this on-line proclamation **Master Jenkins Ci For Devops And Developers Udemy** as skillfully as review them wherever you are now.

AMIYA RAYMOND

AMIYA RAYMOND
Jenkins Ci
For Devops
And
Developers
Udemy

Downloaded
from
ssm.nwherald.com
by guest

**Modern DevOps
Practices** Packt

Publishing Ltd
Harness the power of
DevOps to boost your

skill set and make your IT organization perform better About This Book 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 Who This Book Is For This book is aimed at developers and system administrators who wish to take on larger responsibilities and understand how the infrastructure that builds today's enterprises works. This book is also great for

operations personnel who would like to better support developers. You do not need to have any previous knowledge of DevOps. 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
In Detail
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
Style and approach
This book is primarily a technical guide to

DevOps with practical examples suitable for people who like to learn by implementing concrete working code. It starts out with background information and gradually delves deeper into technical subjects.

Implement DevOps in your organization by effectively building, deploying, testing, and monitoring code,

2nd Edition EduBubs Publishing House
Implement modern DevOps techniques to increase business productivity, agility, reliability, security, and scalability
Key Features
Learn how to use business resources effectively for improved productivity and collaboration
Use infrastructure as code practices to build

large-scale cloud infrastructure
Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD)
Book Description
In the implementation of DevOps processes, the choice of tools is crucial to the sustainability of projects and collaboration between developers and ops.
This book presents the different patterns and tools for provisioning and configuring an infrastructure in the cloud, covering mostly open source tools with a large community contribution, such as Terraform, Ansible, and Packer, which are assets for automation.
This DevOps book will show you how to containerize your

applications with Docker and Kubernetes and walk you through the construction of DevOps pipelines in Jenkins as well as Azure pipelines before covering the tools and importance of testing. You'll find a complete chapter on DevOps practices and tooling for open source projects before getting to grips with security integration in DevOps using Inspec, Hashicorp Vault, and Azure Secure DevOps kit. You'll also learn about the reduction of downtime with blue-green deployment and feature flags techniques before finally covering common DevOps best practices for all your projects. By the end of this book, you'll have built a solid foundation in DevOps and

developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques. What you will learn Understand the basics of infrastructure as code patterns and practices Get an overview of Git command and Git flow Install and write Packer, Terraform, and Ansible code for provisioning and configuring cloud infrastructure based on Azure examples Use Vagrant to create a local development environment Containerize applications with Docker and Kubernetes Apply DevSecOps for testing compliance and securing DevOps infrastructure Build DevOps CI/CD pipelines with Jenkins, Azure

Pipelines, and GitLab CI
 Explore blue-green deployment and DevOps practices for open sources projects
 Who this book is for If you are an application developer or a system administrator interested in understanding continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this book is for you. Knowledge of DevOps fundamentals and Git principles is required.

Pipeline as Code

Pearson Education
 Sharpen your DevOps knowledge with DevOps Bootcamp
 About This Book
 Improve your organization's performance to ensure smooth production of software and services.
 Learn how Continuous

Integration and Continuous Delivery practices can be utilized to cultivate the DevOps culture. A fast-paced guide filled with illustrations and best practices to help you consistently ship quality software. Who This Book Is For The book is aimed at IT Developers and Operations—administrators who want to quickly learn and implement the DevOps culture in their organization. What You Will Learn Static Code Analysis using SONarqube Configure a Maven-based JEE Web Application Perform Continuous Integration using Jenkins and VSTS Install and configure Docker Converge a Chef node using a Chef workstation Accomplish Continuous Delivery in Microsoft

Azure VM and Microsoft Azure App Services (Azure Web Apps) using Jenkins Perform Load Testing using Apache JMeter Build and Release Automation using Visual Studio Team Services Monitor Cloud-based resources In Detail DevOps Bootcamp delivers practical learning modules in manageable chunks. Each chunk is delivered in a day, and each day is a productive one. Each day builds your competency in DevOps. You will be able to take the task you learn every day and apply it to cultivate the DevOps culture. Each chapter presents core concepts and key takeaways about a topic in DevOps and provides a series of hands-on

exercises. You will not only learn the importance of basic concepts or practices of DevOps but also how to use different tools to automate application lifecycle management. We will start off by building the foundation of the DevOps concepts. On day two, we will perform Continuous Integration using Jenkins and VSTS both by configuring Maven-based JEE Web Application?. We will also integrate Jenkins and Sonar qube for Static Code Analysis. Further, on day three, we will focus on Docker containers where we will install and configure Docker and also create a Tomcat Container to deploy our Java based web application. On day four, we will create and

configure the environment for application deployment in AWS and Microsoft Azure Cloud for which we will use Infrastructure as a Service and Open Source Configuration Management tool Chef. For day five, our focus would be on Continuous Delivery. We will automate application deployment in Docker container using Jenkins Plugin, AWS EC2 using Script, AWS Elastic Beanstalk using Jenkins Plugin, Microsoft Azure VM using script, and Microsoft Azure App Services Using Jenkins. We will also configure Continuous Delivery using VSTS. We will then learn the concept of Automated Testing on day six using Apache JMeter and URL-based tests in

VSTS. Further, on day seven, we will explore various ways to automate application lifecycle management using orchestration. We will see how Pipeline can be created in Jenkins and VSTS, so the moment Continuous Integration is completed successfully, Continuous Delivery will start and application will be deployed. On the final day, our focus would be on Security access to Jenkins and Monitoring of CI resources, and cloud-based resources in AWS and Microsoft Azure Platform as a Service. Style and Approach This book is all about fast and intensive learning. This means we don't waste time in helping readers

get started. The new content is basically about filling in with highly-effective examples to build new things, solving problems in newer and unseen ways, and solving real-world examples.

Pro Continuous Delivery Packt Publishing Ltd
Start thinking about your development pipeline as a mission-critical application. Discover techniques for implementing code-driven infrastructure and CI/CD workflows using Jenkins, Docker, Terraform, and cloud-native services. In Pipeline as Code, you will master: Building and deploying a Jenkins cluster from scratch Writing pipeline as code for cloud-native applications

Automating the deployment of Dockerized and Serverless applications Containerizing applications with Docker and Kubernetes Deploying Jenkins on AWS, GCP and Azure Managing, securing and monitoring a Jenkins cluster in production Key principles for a successful DevOps culture Pipeline as Code is a practical guide to automating your development pipeline in a cloud-native, service-driven world. You'll use the latest infrastructure-as-code tools like Packer and Terraform to develop reliable CI/CD pipelines for numerous cloud-native applications. Follow this book's insightful best practices, and you'll soon be

delivering software that's quicker to market, faster to deploy, and with less last-minute production bugs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Treat your CI/CD pipeline like the real application it is. With the Pipeline as Code approach, you create a collection of scripts that replace the tedious web UI wrapped around most CI/CD systems. Code-driven pipelines are easy to use, modify, and maintain, and your entire CI pipeline becomes more efficient because you directly interact with core components like Jenkins, Terraform, and Docker. About the book In Pipeline as Code

you'll learn to build reliable CI/CD pipelines for cloud-native applications. With Jenkins as the backbone, you'll programmatically control all the pieces of your pipeline via modern APIs. Hands-on examples include building CI/CD workflows for distributed Kubernetes applications, and serverless functions. By the time you're finished, you'll be able to swap manual UI-based adjustments with a fully automated approach! What's inside Build and deploy a Jenkins cluster on scale Write pipeline as code for cloud-native applications Automate the deployment of Dockerized and serverless applications Deploy Jenkins on AWS, GCP, and Azure Grasp

key principles of a successful DevOps culture About the reader For developers familiar with Jenkins and Docker. Examples in Go. About the author Mohamed Labouardy is the CTO and co-founder of Crew.work, a Jenkins contributor, and a DevSecOps evangelist. Table of Contents PART 1 GETTING STARTED WITH JENKINS 1 What's CI/CD? 2 Pipeline as code with Jenkins PART 2 OPERATING A SELF-HEALING JENKINS CLUSTER 3 Defining Jenkins architecture 4 Baking machine images with Packer 5 Discovering Jenkins as code with Terraform 6 Deploying HA Jenkins on multiple cloud providers PART 3 HANDS-ON CI/CD PIPELINES 7 Defining a pipeline as code for

microservices 8 Running automated tests with Jenkins 9 Building Docker images within a CI pipeline 10 Cloud-native applications on Docker Swarm 11 Dockerized microservices on K8s 12 Lambda-based serverless functions PART 4 MANAGING, SCALING, AND MONITORING JENKINS 13 Collecting continuous delivery metrics 14 Jenkins administration and best practices **DevOps: Continuous Delivery, Integration, and Deployment with DevOps** Packt Publishing Ltd 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
Implement continuous delivery and integration in the AWS environment, 2nd Edition Packt Publishing Ltd

"This course covers all the fundamentals about Jenkins and teach you everything you need to know to setup a Jenkins build pipeline starting with continuous inspection (build, test and static analysis) all the way to continuous deployment (deploy to staging and production). In the end of this course, you will gain in-depth knowledge about Jenkins and general DevOps skills to help your company or your own project to apply the right Jenkins workflow and continuously deliver better software.

Jenkins is on the bleeding edge of technology today. It is also one of the most compelling technologies of the last decade in terms of its disruption to software development and operation practices. The Jenkins Continuous Integration solution has become a standby in organizations of all sizes that want to increase productivity and streamline software development in the era of Agile. It has extensive community support has the extended the core functionality of Jenkins by developing thousands of useful plugins. An ecosystem of more than 1,100 plug-ins has emerged, enabling customers to add all sorts of functionality and integrate Jenkins with

everything from Active Directory to GitHub to Tomcat. Jenkins is becoming a must tool for DevOps. It allows companies to build very sophisticated build pipelines very quickly, thus greatly reducing the risk within the software development lifecycle. Tons of companies have already been using Jenkins to implement continuous integration pipeline. Today you have the access to that same technology right on your desktop."--

Resource description page.

Pipeline as Code

Packt Publishing Ltd
Simplify your DevOps roles with DevOps tools and techniques
Key Features
Learn to utilize business resources effectively to increase productivity

and collaboration
Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD) Ensure faster time-to-market by reducing overall lead time and deployment downtime
Book Description
The implementation of DevOps processes requires the efficient use of various tools, and the choice of these tools is crucial for the sustainability of projects and collaboration between development (Dev) and operations (Ops). This book presents the different patterns and tools that you can use to provision and configure an infrastructure in the cloud. You'll begin by understanding DevOps culture, the application

of DevOps in cloud infrastructure, provisioning with Terraform, configuration with Ansible, and image building with Packer. You'll then be taken through source code versioning with Git and the construction of a DevOps CI/CD pipeline using Jenkins, GitLab CI, and Azure Pipelines. This DevOps handbook will also guide you in containerizing and deploying your applications with Docker and Kubernetes. You'll learn how to reduce deployment downtime with blue-green deployment and the feature flags technique, and study DevOps practices for open source projects. Finally, you'll grasp some best practices for reducing the overall

application lead time to ensure faster time to market. By the end of this book, you'll have built a solid foundation in DevOps, and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques. What you will learn: Become well versed with DevOps culture and its practices. Use Terraform and Packer for cloud infrastructure provisioning. Implement Ansible for infrastructure configuration. Use basic Git commands and understand the Git flow process. Build a DevOps pipeline with Jenkins, Azure Pipelines, and GitLab CI. Containerize your applications with Docker and Kubernetes. Check application

quality with SonarQube and Postman Protect DevOps processes and applications using DevSecOps tools Who this book is for If you are a developer or a system administrator interested in understanding continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this book is for you.

Build DevOps Pipeline

Packt Publishing

Learn, understand, and apply people-, process-, and technology-related practices to make OpenShift and DevOps adoption a success within your organization.

With Jenkins 2.0

Packt Publishing Ltd

Automating the Continuous Deployment Pipeline with Containerized

MicroservicesAbout

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

continuouslyWho This Book Is ForIf 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
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 Farci 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.
Build and Release Quality Software at Scale with Jenkins,

Travis CI, and CircleCI Packt

Publishing Ltd
 Get hands-on recipes to automate and manage Linux containers with the Docker 1.6 environment and jump-start your Puppet development About This Book Successfully deploy DevOps with proven solutions and recipes Automate your infrastructure with Puppet and combine powerful DevOps methods Deploy and manage highly scalable applications using Kubernetes streamline the way you manage your applications Who This Book Is For This Learning Path is for developers, system administrators, and DevOps engineers who want to use Puppet, Docker, and Kubernetes in their

development, QA, or production environments. This Learning Path assumes experience with Linux administration and requires some experience with command-line usage and basic text file editing. What You Will Learn Discover how to build high availability Kubernetes clusters Deal with inherent issues with container virtualization and container concepts Create services with Docker to enable the swift development and deployment of applications Make optimum use of Docker in a testing environment Create efficient manifests to streamline your deployments Automate Puppet master deployment using Git hooks, r10k, and

PuppetDB In Detail
With so many IT management and DevOps tools on the market, both open source and commercial, it's difficult to know where to start. DevOps is incredibly powerful when implemented correctly, and here's how to get it done. This Learning Path covers three broad areas: Puppet, Docker, and Kubernetes. This Learning Path is a large resource of recipes to ease your daily DevOps tasks. We begin with recipes that help you develop a complete and expert understanding of Puppet's latest and most advanced features. Then we provide recipes that help you efficiently work with the Docker environment. Finally,

we show you how to better manage containers in different scenarios in production using Kubernetes. This course is based on these books: Puppet Cookbook, Third Edition Docker Cookbook Kubernetes Cookbook Style and approach This easy-to-follow tutorial-style guide teaches you precisely how to configure complex systems in Puppet and manage your containers using Kubernetes.

The DevOps 2.2 Toolkit Packt Publishing Ltd
Implement DevOps for Salesforce and explore its features
Key Features Learn DevOps principles and techniques for enterprise operations in Salesforce
Implement Continuous

Integration and Continuous Delivery using tools such as Jenkins and Ant script Use the Force.com Migration Tool and Git to achieve versioning in Salesforce Book Description Salesforce is one of the top CRM tools used these days, and with its immense functionalities and features, it eases the functioning of an enterprise in various areas of sales, marketing, and finance, among others. Deploying Salesforce applications is a tricky event, and it can get quite taxing for admins and consultants. This book addresses all the problems that you might encounter while trying to deploy your applications and shows you how to resort to DevOps to take these challenges head on.

Beginning with an overview of the development and delivery process of a Salesforce app, DevOps for Salesforce covers various types of sandboxing and helps you understand when to choose which type. You will then see how different it is to deploy with Salesforce as compared to deploying with another app. You will learn how to leverage a migration tool and automate deployment using the latest and most popular tools in the ecosystem. This book explores topics such as version control and DevOps techniques such as Continuous Integration, Continuous Delivery, and testing. Finally, the book will conclude by showing you how to track bugs in your application

changes using monitoring tools and how to quantify your productivity and ROI. By the end of the book, you will have acquired skills to create, test, and effectively deploy your applications by leveraging the features of DevOps. What you will learn Implement DevOps for Salesforce and understand the benefits it offers Abstract the features of Force.com MigrationTool to migrate and retrieve metadata Develop your own CI/CD Pipeline for Salesforce project Use Qualitia to perform scriptless automation for Continuous Testing Track application changes using Bugzilla Apply Salesforce best practices to implement DevOps Who this book is for If you are a Salesforce developer,

consultant, or manager who wants to learn DevOps tools and set up pipelines for small as well as large Salesforce projects, this book is for you. **Deploying Jenkins to the Cloud with DevOps Tools** Packt Publishing Ltd 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.

Learning DevOps

Packt Publishing Ltd
Winner of the Shingo Publication Award
Accelerate your organization to win in the marketplace. How can we apply technology to drive business value? For years, we've been told that the performance of software delivery teams doesn't matter—that it can't provide a competitive advantage to our companies. Through four years of groundbreaking research to include data collected from the State of DevOps reports conducted with Puppet, Dr. Nicole Forsgren, Jez Humble, and Gene Kim set out to find a way to measure software

delivery performance—and what drives it—using rigorous statistical methods. This book presents both the findings and the science behind that research, making the information accessible for readers to apply in their own organizations. Readers will discover how to measure the performance of their teams, and what capabilities they should invest in to drive higher performance. This book is ideal for management at every level.

Self-Sufficient Docker Clusters Packt Publishing Ltd
Scale and maintain outstanding performance in your AWS-based infrastructure using DevOps principles Key

Features Implement continuous integration and continuous deployment pipelines on AWS Gain insight from an expert who has worked with Silicon Valley's most high-profile companies Implement DevOps principles to take full advantage of the AWS stack and services
Book Description The DevOps movement has transformed the way modern tech companies work. Amazon Web Services (AWS), which has been at the forefront of the cloud computing revolution, has also been a key contributor to the DevOps movement, creating a huge range of managed services that help you implement DevOps principles. Effective DevOps with AWS, Second Edition

will help you to understand how the most successful tech start-ups launch and scale their services on AWS, and will teach you how you can do the same. This book explains how to treat infrastructure as code, meaning you can bring resources online and offline as easily as you control your software. You will also build a continuous integration and continuous deployment pipeline to keep your app up to date. Once you have gotten to grips with all this, we'll move on to how to scale your applications to offer maximum performance to users even when traffic spikes, by using the latest technologies, such as containers. In addition to this, you'll get insights into monitoring and

alerting, so you can make sure your users have the best experience when using your service. In the concluding chapters, we'll cover inbuilt AWS tools such as CodeDeploy and CloudFormation, which are used by many AWS administrators to perform DevOps. By the end of this book, you'll have learned how to ensure the security of your platform and data, using the latest and most prominent AWS tools. What you will learn Implement automatic AWS instance provisioning using CloudFormation Deploy your application on a provisioned infrastructure with Ansible Manage infrastructure using Terraform Build and

deploy a CI/CD pipeline with Automated Testing on AWS Understand the container journey for a CI/CD pipeline using AWS ECS Monitor and secure your AWS environment Who this book is for Effective DevOps with AWS is for you if you are a developer, DevOps engineer, or you work in a team which wants to build and use AWS for software infrastructure. Basic computer science knowledge is required to get the most out of this book.

Implement and secure DevOps in the public cloud with cutting-edge tools, tips, tricks, and techniques Learning Continuous Integration with Jenkins Speed up the software delivery process and software productivity

using the latest features of Jenkins Key Features Take advantage of a Continuous Integration and Continuous Delivery solution to speed up productivity and achieve faster software delivery See all the new features introduced in Jenkins 2.x, such as Pipeline as code, Multibranch pipeline, Docker Plugin, and more Learn to implement Continuous Integration and Continuous Delivery by orchestrating multiple DevOps tools using Jenkins Book Description In past few years, agile software development has seen tremendous growth. There is a huge demand for software delivery solutions that are fast yet flexible to numerous amendments. As a

result, Continuous Integration (CI) and Continuous Delivery (CD) methodologies are gaining popularity. This book starts off by explaining the concepts of CI and its significance in the Agile. Next, you'll learn how to configure and set up Jenkins in many different ways. The book exploits the concept of "pipeline as code" and various other features introduced in the Jenkins 2.x release to their full potential. We also talk in detail about the new Jenkins Blue Ocean interface and the features that help to quickly and easily create a CI pipeline. Then we dive into the various features offered by Jenkins one by one, exploiting them for CI and CD. Jenkins' core

functionality and flexibility allows it to fit in a variety of environments and can help streamline the development process for all stakeholders. Next, you'll be introduced to CD and will learn how to achieve it using Jenkins. Through this book's wealth of best practices and real-world tips, you'll discover how easy it is to implement CI and CD using Jenkins. What you will learn Get to know some of the most popular ways to set up Jenkins See all the new features introduced in the latest Jenkins, such as pipeline as code, Multibranch pipeline, and more Manage users, projects, and permissions in Jenkins to ensure better security Leverage the power of plugins in

Jenkins Learn how to create a CI pipeline using Jenkins Blue Ocean Create a distributed build farm using Docker and use it with Jenkins Implement CI and CD using Jenkins See the difference between CD and Continuous Deployment Understand the concepts of CI Who this book is for The book is for those with little or no previous experience with Agile or CI and CD. It's a good starting point for anyone new to this field who wants to leverage the benefits of CI and CD to increase productivity and reduce delivery time. It's ideal for Build and Release engineers, DevOps engineers, SCM (Software Configuration Management) engineers, developers,

testers, and project managers. If you're already using Jenkins for CI, you can take your project to the next level—CD. *DevOps for Web Development* "O'Reilly Media, Inc." Learn to use some of the most exciting and powerful tools to deliver world-class quality software with continuous delivery and DevOps About This Book Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer Deploy top-quality software and ensure software maintenance and release management with this practical guide This course covers some of the most exciting technology available to

DevOps engineers, and demonstrates multiple techniques for using them. Real-world and realistic examples are provided to help you as you go about the implementation and adoption of continuous delivery and DevOps.

Who This Book Is For

This course is for developers who want to understand how the infrastructure that builds today's enterprises works, and how to painlessly and regularly ship quality software.

What You Will Learn

- 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.
- Test the code using automated regression testing with Jenkins.

Selenium Managing the lifecycle of hosts, from creation to ongoing management using Puppet.

Razor Find out how to manage, use, and work with Code in the Git version management system.

See what traps, pitfalls, and hurdles to look out for as you implement continuous delivery and DevOps.

In Detail Harness the power of DevOps to boost your skill set and make your IT organization perform better. If you're keen to employ DevOps techniques to better your software development, this course contains all you need to overcome the day-to-day complications of managing complex infrastructures the DevOps way. Start with your first module -

Practical DevOps - that

encompasses the entire flow from code from testing to production. Get a solid ground-level knowledge of how to monitor code for any anomalies, perform code testing, and make sure the code is running smoothly through a series of real-world exercise, and develop practical skills by creating a sample enterprise Java application. In the second module, run through a series of tailored mini-tutorials designed to give you a complete understanding of every DevOps automation technique. Create real change in the way you deliver your projects by utilizing some of the most commendable software available today. Go from your first steps of managing

code in Git to configuration management in Puppet, monitoring using Sensu, and more. In the final module, get to grips with the continuous delivery techniques that will help you reduce the time and effort that goes into the delivery and support of software. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Practical DevOps by Joakim Verona DevOps Automation Cookbook by Michael Duffy Continuous Delivery and DevOps : A Quickstart Guide - Second Edition by Paul Swartout Style and approach This course is

an easy to follow project based guide for all those with a keen interest in deploying world-class software using some of the most effective and remarkable technologies available.

Continuous

Deployment to

Kubernetes:

Continuously deploying applications with

Jenkins to a Kubernetes

cluster Packt

Publishing Ltd

Develop a base for

DevOps culture by

implementing

Continuous Integration

and Continuous

Delivery including

automated builds, unit

test execution,

packaging, and static

code analysis with

Jenkins 2About This

Book* Explore

Continuous Integration

and automation, along

with how to manage

and configure Jenkins*

Master using Jenkins to

build, test, and

package Java

applications* Learn

about Jenkins'

extensible features

with automated

deployment on cloud

platforms such as AWS

Elastic Beanstalk and

Microsoft Azure App

Services* Learn about

creating a pipeline

using Build Pipeline

plugin and the Pipeline

as Code feature

available after the

release of Jenkins

2.0Who This Book Is

ForIf you are a Jenkins

novice or beginner with

a basic or no

understanding of

Continuous Integration,

then this is the book

for you. Beginners in

Jenkins will get quick

hands-on experience

and gain the

confidence to explore

the use of Jenkins

further. What You Will Learn* Get to grips with the challenges faced by developer communities* Learn about Continuous Integration and how it helps build various Java applications* Facilitate the installation and configuration of Jenkins* Install and configure code repositories and build tools* Learn about the integration of Eclipse with Jenkins* Manage the integration of Jenkins, code repositories, and build tools* Familiarize yourself with Continuous Integration for Java applications with unit test execution and static code analysis* Learn about Continuous Delivery and how to deploy applications in AWS and Microsoft Azure

In agile development practices, developers need to integrate their work frequently to fix bugs or to create a new feature or functionality. Jenkins is used specifically for Continuous Integration, helping to enforce the principles of agile development. This book focuses on the latest and stable release of Jenkins (2.5 and later), featuring the latest features, such as Pipeline as Code, the new setup experience, and the improved UI. With the all-new Pipeline as Code feature, you will be able to build simple or advanced pipelines easily and rapidly, hence improving your teams' productivity. This book begins by tackling the installation of the necessary software

dependencies and libraries you'll need to perform Continuous Integration for a Java application. From there, you'll integrate code repositories, applications, and build tools for the implementation of Continuous Integration. Finally, you will also learn how to automate your deployment on cloud platforms such as AWS and Microsoft Azure, along with a few advanced testing techniques. Style and approach This book provides simple, step-by-step instructions, taking you from start to finish in accomplishing real-world Continuous Integration and Continuous Delivery tasks.

Mastering Jenkins CI with Amazon AWS

"O'Reilly Media, Inc." 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.

Jenkins: The Definitive Guide

Simon and Schuster Streamline software development with Jenkins, the popular Java-based open source tool that has revolutionized the way teams think about Continuous Integration (CI). This complete guide shows you how to automate your build, integration, release, and deployment processes with Jenkins—and demonstrates how CI can save you time, money, and many headaches. Ideal for developers, software architects, and project managers, Jenkins: The Definitive Guide is both a CI tutorial and a comprehensive Jenkins reference. Through its

wealth of best practices and real-world tips, you'll discover how easy it is to set up a CI service with Jenkins. Learn how to install, configure, and secure your Jenkins server Organize and monitor general-purpose build jobs Integrate automated tests to verify builds, and set up code quality reporting Establish effective team notification strategies and techniques Configure build pipelines, parameterized jobs, matrix builds, and other advanced jobs Manage a farm of Jenkins servers to run distributed builds Implement automated deployment and continuous delivery

Learning Continuous Integration with Jenkins Packt

Publishing Ltd DevOps represents a powerful new approach to delivering IT services, where software developers and IT operations teams work closely together to deploy projects far more often and more reliably. As pioneers like Google, Amazon, and Netflix have discovered, DevOps can improve efficiency, accelerate delivery, and reduce costs. However, most discussions of DevOps focus on theory rather than implementation, and DevOps raises unique issues in virtualized environments. DevOps for VMware Administrators addresses these issues, offering realistic insights both for implementing DevOps and for applying new

tools to maximize its value. The authors also offer extensive hands-on practice with solving realistic problems and improving IT efficiency by utilizing these four tools: Puppet IT automation software for managing infrastructure across its lifecycle, including provisioning, configuration, orchestration, and reporting Chef configuration management tool for writing system configuration "recipes" that streamline server configuration and maintenance and can integrate with cloud-based platforms such as Rackspace and Amazon EC2 to automate provisioning Ansible, the flexible open source toolkit for automating

configuration
management and
orchestration in Unix
and Unix-style
environments Windows

PowerShell for
automating tasks and
configuration
management in
Windows environments