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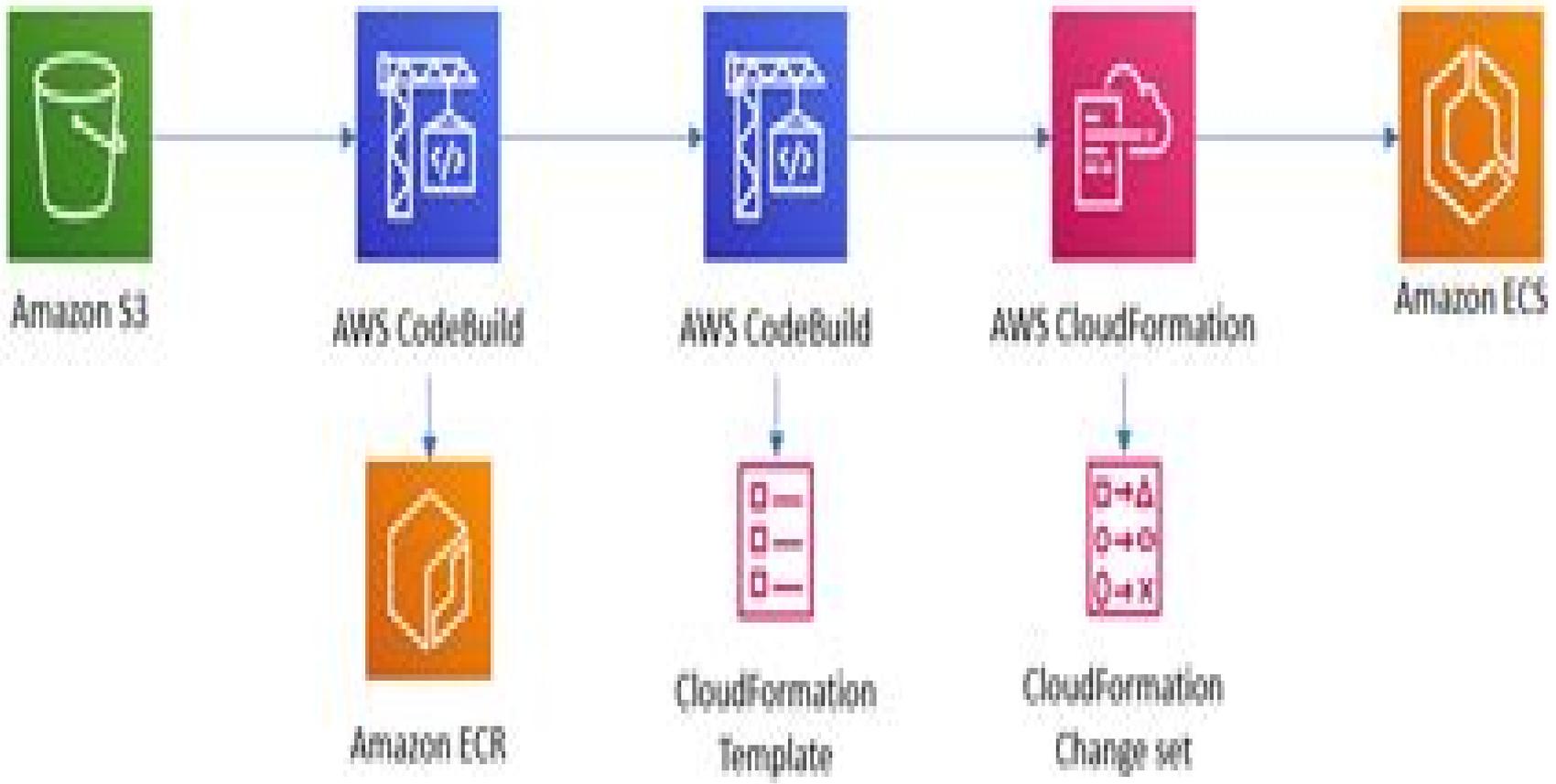
Roman Wölfel

Continuous Delivery And Docker Amazon S3 Aws:

   Docker Cookbook Sébastien Goasguen,2015-11-04 Whether you re deploying applications on premise or in the cloud this cookbook provides developers operators and IT professionals with more than 130 proven recipes for working with Docker With these practical solutions experienced developers with no previous knowledge of Docker will be able to package and deploy distributed applications within a couple of chapters IT professionals will be able to solve everyday problems as well as create run share and deploy Docker images Operators will quickly be able to adopt the tools that will change the way they work The recipes in this book will help you Manage containers mount data volumes and link containers Create and share container images Network containers across single or multiple hosts Tackle advanced topics such as Docker configuration and development Deploy multi container applications on a distributed cluster with Kubernetes Use a new generation of operating systems optimized for Docker Learn tools for application deployment continuous integration service discovery and orchestration Access a Docker host on Amazon AWS Google GCE and Microsoft Azure Monitor containers and explore different application use cases   Shift Left: Integrating Test Automation into Agile DevOps Workflows Yuvakumar Kuramannagari,2025-08-20 Especially within the context of Agile and DevOps processes the idea of Shift Left has become an essential component of contemporary software development Organizations are able to uncover errors earlier decrease the amount of rework that is required and speed up the delivery of high quality software when they include test automation at an early stage in the development lifecycle Shift Left places an emphasis on proactive quality assurance by incorporating automated testing inside continuous integration and continuous delivery CI CD pipelines This is in contrast to conventional techniques which place testing at a later stage in the cycle This integration not only improves the ability of developers testers and operations teams to work together but it also guarantees that quality becomes a responsibility that is shared across the process The use of Shift Left testing methodologies helps strike a balance between speed and dependability allowing teams to offer value to consumers more quickly and with more assurance This is particularly important for enterprises that are becoming increasingly dependent on rapid releases and digital innovation   **Docker on Amazon Web Services** Justin Menga,2018-08-30 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 **AWS Cloud Practitioner Exam Guide** Gabriele Mastrapasqua,2025-05-07 DESCRIPTION Amazon Web Services AWS stands as the preeminent cloud computing platform offering a comprehensive suite of services for diverse technological requirements This AWS Cloud Practitioner Exam Guide serves as a structured and rigorous resource for comprehending the foundational principles of AWS and effectively preparing for the Cloud Practitioner Certification examination This guide introduces core cloud computing paradigms the Global Infrastructure of AWS encompassing regions Availability Zones and content delivery mechanisms via CloudFront and Edge Locations It examines cloud deployment the AWS Well Architected Framework for resilient scalable solutions and secure access via IAM Essential compute EC2 Lambda storage S3 EBS databases RDS DynamoDB networking VPC security event driven architectures SQS SNS monitoring CloudWatch infrastructure automation CloudFormation cost management advanced identity Cognito and other AWS offerings for exam preparation are also covered It also covers event driven architectures with SQS and SNS monitoring with CloudWatch automation via CloudFormation cost management advanced identity with Cognito and key AWS services aligned with exam goals Upon completing this guide you ll gain a solid foundation in AWS services and concepts preparing you to confidently pass the AWS Cloud Practitioner exam and articulate key cloud value propositions This book is your step by step path to launching a career in cloud engineering solutions architecture DevOps or cloud support WHAT YOU WILL LEARN Implementing AWS security best practices encryption key management compliance and auditing Content delivery with CloudFront event driven architectures using SQS and SNS messaging Monitoring AWS resources with CloudWatch and infrastructure automation using CloudFormation and CDK Cloud fundamentals AWS Global Infrastructure deployment models and the Well Architected Framework Core AWS compute services like EC2 instances containers with ECS and serverless Lambda Relational RDS Aurora and NoSQL DynamoDB

database services and analytical tools Redshift WHO THIS BOOK IS FOR This book is designed for individuals seeking to understand AWS fundamentals and those aiming to enhance their existing AWS knowledge for certification purposes No prior AWS or technical experience is needed making it ideal for both beginners and professionals looking to build and validate foundational cloud skills TABLE OF CONTENTS 1 Cloud Introduction 2 AWS Global Infrastructures and Main Services 3 AWS Identity Access Management 4 AWS Compute Services 5 AWS Storage Services 6 AWS Database Services 7 AWS Networking 8 AWS Security 9 AWS Content Delivery and Global Applications 10 AWS Events and Messages 11 AWS Cloud Monitoring 12 AWS Cloud Deployment and IaC 13 AWS Billing and Organizations 14 AWS Advanced Identity Services 15 Machine Learning and Other AWS Services 16 Preparing for the Exam **AWS Certified SysOps Administrator Associate All-in-One-Exam Guide (Exam SOA-C01)** Sam R. Alapati,2019-06-14 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product This study guide covers 100% of the objectives for the AWS Certified SysOps Administrator Associate examTake the challenging AWS Certified SysOps Administrator Associate exam with confidence using this highly effective self study guide You will learn how to provision systems ensure data integrity handle security and monitor and tune Amazon Web Services performance Written by an industry leading expert AWS Certified SysOps Administrator Associate All in One Exam Guide Exam SOA C01 fully covers every objective for the exam and follows a hands on step by step methodology Beyond fully preparing you for the exam the book also serves as a valuable on the job reference Covers all exam topics including Systems operations Signing up working with the AWS Management Console and the AWS CLI AWS Identity and Access Management IAM and AWS service security AWS compute services and the Elastic Compute Cloud EC2 Amazon ECS AWS Batch AWS Lambda and other compute services Storage and archiving in the AWS cloud with Amazon EBS Amazon EFS and Amazon S3 Glacier Managing databases in the cloud Amazon RDS Amazon Aurora Amazon DynamoDB Amazon ElastiCache and Amazon Redshift Application integration with Amazon SQS and Amazon SNS AWS high availability strategies Monitoring with Amazon CloudWatch logging and managing events Managing AWS costs and billing Infrastructure provisioning through AWS CloudFormation and AWS OpsWorks application deployment and creating scalable infrastructuresOnline content includes 130 practice questions Test engine that provides full length practice exams or customized quizzes by chapter or by exam domain **Scalable Application Development with NestJS** Pacifique Linjanja,2025-01-03 Build production ready scalable applications that stand up to enterprise demands with NestJS while learning all about APIs GraphQL and more Free with your book DRM free PDF version access to Packt s next gen Reader Key Features Understand the basics of robust modern apps design patterns and NestJS architecture Build test and scale Rest APIs and GraphQL APIs using NestJS Utilize microservice architecture DevOps security and communication patterns for modern API development Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn this book

Pacifique Linjanja a globally recognized software engineer and open source contributor shares his deep technical expertise and practical insights from his extensive experience delivering enterprise level applications to unpack the full potential of NestJS the cutting edge Node js framework This book covers the core concepts design patterns and best practices for building scalable high performance applications with NestJS You ll learn REST API and GraphQL implementations harness the power of microservices and explore real world case studies including e commerce social networking and ERP systems The chapters provide step by step guidance for setting up your development environment with TypeScript and npm structuring projects effectively and using the Apollo Federation architecture to create efficient GraphQL APIs This book offers hands on guidance for testing and debugging APIs handling exceptions and validating data using pipes and guards all while helping you build a complete NestJS application from scratch By the end you ll be ready to apply DevOps principles for continuous integration and deployment as well as secure your NestJS applications using advanced techniques Email sign up and proof of purchase requiredWhat you will learn Master NestJS architecture and set up your environment with Node js npm and TypeScript Apply design patterns and best practices to build robust maintainable apps Build REST APIs and leverage GraphQL for flexible querying Use microservices architecture to efficiently scale your applications Understand how to test and debug APIs for optimal performance Implement Apollo Federation for efficient GraphQL APIs in a federated system Secure NestJS apps with advanced techniques Who this book is for If you are a software engineer developer or a tech lead looking to build scalable applications using NestJS REST GraphQL and microservices this book is for you Whether you re new to NestJS or a seasoned developer this guide will help you leverage NestJS for your next big project It s also ideal for project managers and other IT professionals seeking insights into enterprise level efficient development testing strategies and deployment processes Even technology enthusiasts will find this book enlightening   Pro Couchbase Server David Ostrovsky,Yaniv Rodenski,Mohammed Haji,2015-11-27 This new edition is a hands on guide for developers and administrators who want to use the power and flexibility of Couchbase Server 4 0 in their applications The second edition extends coverage of N1QL the SQL like query language for Couchbase It also brings coverage of multiple new features including the new generation of client SDKs security and LDAP integration secondary indexes and multi dimensional scaling Pro Couchbase Server covers everything you need to develop Couchbase solutions and deploy them in production The NoSQL movement has fundamentally changed the database world in recent years Influenced by the growing needs of web scale applications NoSQL databases such as Couchbase Server provide new approaches to scalability reliability and performance Never have document databases been so powerful and performant With the power and flexibility of Couchbase Server you can model your data however you want and easily change the data model any time you want Pro Couchbase Server shows what is possible and helps you take full advantage of Couchbase Server and all the performance and scalability that it offers Helps you design and develop a document database using Couchbase Server Covers the latest features such as the N1QL

query language Gives you the tools to scale out your application as needed **AWS Automation Cookbook** Nikit Swaraj,2017-11-24 Automate release processes deployment and continuous integration of your application as well as infrastructure automation with the powerful services offered by AWS About This Book Accelerate your infrastructure s productivity by implementing a continuous delivery pipeline within your environment Leverage AWS services and Jenkins 2 0 to perform complete application deployments on Linux servers This recipe based guide that will help you minimize application deployment downtime Who This Book Is For This book is for developers and system administrators who are responsible for hosting their application and managing instances in AWS It s also ideal for DevOps engineers looking to provide continuous integration deployment and delivery A basic understanding of AWS Jenkins and some scripting knowledge is needed What You Will Learn Build a sample Maven and NodeJS Application using CodeBuild Deploy the application in EC2 Auto Scaling and see how CodePipeline helps you integrate AWS services Build a highly scalable and fault tolerant CI CD pipeline Achieve the CI CD of a microservice architecture application in AWS ECS using CodePipeline CodeBuild ECR and CloudFormation Automate the provisioning of your infrastructure using CloudFormation and Ansible Automate daily tasks and audit compliance using AWS Lambda Deploy microservices applications on Kubernetes using Jenkins Pipeline 2 0 In Detail AWS CodeDeploy AWS CodeBuild and CodePipeline are scalable services offered by AWS that automate an application s build and deployment pipeline In order to deliver tremendous speed and agility every organization is moving toward automating an entire application pipeline This book will cover all the AWS services required to automate your deployment to your instances You ll begin by setting up and using one of the AWS services for automation CodeCommit Next you ll learn how to build a sample Maven and NodeJS Application using CodeBuild After you ve built the application you ll see how to use CodeDeploy to deploy the application in EC2 Autoscaling You ll also build a highly scalable and fault tolerant continuous integration CI continuous deployment CD pipeline using some easy to follow recipes Following this you ll achieve CI CD for Microservices application and reduce the risk within your software development lifecycle You ll also learn to set up an infrastructure using CloudFormation Template and Ansible and see how to automate AWS resources using AWS Lambda Finally you ll learn to automate instances in AWS and automate the deployment lifecycle of applications By the end of this book you ll be able to minimize application downtime and implement CI CD gaining total control over your software development lifecycle Style and approach This book takes a How to do it approach providing with easy solutions to automate common maintenance and deployment tasks **Expert AWS Development** Atul Mistry,2018-03-29 Key concepts sample applications best practices and troubleshooting tips to build highly scalable applications in AWS Key Features Design highly available cost efficient fault tolerant and scalable distributed systems A practical guide that will help you build deploy and manage applications with ease Develop effective solutions with AWS SDK and Lambda Book Description Continuous deployment and Agile methodology have enabled huge advances in modern applications This book will enable the reader to

make use of this rapidly evolving technology to build highly scalable applications within AWS using different architectures You will begin with installation of AWS SDK and you will get hands on experience on creating an application using AWS Management Console and AWS Command Line Interface CLI Next you will be integrating Applications with AWS services such as DynamoDB Amazon Kinesis AWS Lambda Amazon SQS and Amazon SWF Following this you will get well versed with CI CD workflow and work with four major phases in Release processes Source Build Test and Production Next you will learn to apply AWS developer tools in your Continuous Integration CI and Continuous Deployment CD WorkFlow Later you will learn about User Authentication using Amazon Cognito and also how you can evaluate the best architecture as per your infrastructure costs You will learn about Amazon EC2 service and deploy an app using Amazon EC2 You will also get well versed with container service which is Amazon EC2 Container Service Amazon ECS and you will learn to deploy an app using Amazon ECS Along with EC2 and ECS you will also deploying a practical real world example of a CI CD application with the Serverless Application Framework which is known as AWS Lambda Finally you will learn how to build develop and deploy the Application using AWS Developer tools like AWS CodeCommit AWS CodeBuild AWS CodeDeploy and AWS CodePipeline as per project needs Also you can develop and deploy applications within minutes using AWS CodeStar from wizard By the end of this book the reader will effectively build deploy and manage applications on AWS along with scaling and securing applications with best practices and troubleshooting tips What you will learn Learn how to get up and running with AWS Developer Tools Integrate the four major phases in the Release Processes Source Build Test and Production Learn how to integrate Continuous Integration Continuous Delivery and Continuous Deployment in AWS Make secure scalable and fault tolerant applications Understand different architectures and deploy complex architectures within minutes Who this book is for This book targets developers who would like to build and manage web and mobile applications and services on the AWS platform If you are an architect you will be able to take a deep dive and use examples that can be readily applied to real world scenarios Some prior programming experience is assumed along with familiarity of cloud computing **Continuous Delivery with Docker and Jenkins** Rafal Leszko,2022-05-04 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   **Pipeline as Code** Mohamed Labouardy,2021-11-23 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

Continuous Delivery with Docker and Jenkins Rafał Leszko,2019-05-31 Create a complete Continuous Delivery process using modern DevOps tools such as Docker Kubernetes Jenkins Docker Hub Ansible GitHub and many more Key FeaturesBuild reliable and secure applications using Docker containers Create a highly available environment to scale a Docker servers using KubernetesImplement advance continuous delivery process by parallelizing the pipeline tasksBook 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 learnGet to grips with docker fundamentals and how to dockerize an application for the CD processLearn how to use Jenkins on the Cloud environmentsScale a pool of Docker servers using KubernetesCreate multi container applications using Docker ComposeWrite acceptance tests using Cucumber and run them in the Docker ecosystem using JenkinsPublish a built Docker image to a Docker Registry and deploy cycles of Jenkins pipelines using community best practicesWho 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   DevOps in Amazon Web Services Paul M. Duvall,2017-12 For thousands of companies the Amazon Web Services AWS cloud is today s software development environment of choice Now there s a complete guide to using DevOps and continuous delivery techniques on AWS so you can reliably deliver new features to users and customers at the click of a button First leading

software development consultant Paul Duvall concisely reviews DevOps principles culture and goals Next using a realistic reference implementation he offers detailed hands on guidance on applying automation throughout the entire AWS cloud software delivery process Finally he presents up to date case studies of companies applying DevOps throughout their own modern development environments from Netflix to AMC Health to the U S government Using principles patterns and examples you ll find here you can make the most of DevOps and continuous delivery with today s most widely used cloud platform What s more you ll master skills you can use as AWS evolves or with any other cloud platform you choose

Docker for Developers Richard Bullington-McGuire,Andrew K. Dennis,Michael Schwartz,2020-09-14 Learn how to deploy and test Linux based Docker containers with the help of real world use cases Key FeaturesUnderstand how to make a deployment workflow run smoothly with Docker containersLearn Docker and DevOps concepts such as continuous integration and continuous deployment CI CD Gain insights into using various Docker tools and librariesBook Description Docker is the de facto standard for containerizing apps and with an increasing number of software projects migrating to containers it is crucial for engineers and DevOps teams to understand how to build deploy and secure Docker environments effectively Docker for Developers will help you understand Docker containers from scratch while taking you through best practices and showing you how to address security concerns Starting with an introduction to Docker you ll learn how to use containers and VirtualBox for development You ll explore how containers work and develop projects within them after you ve explored different ways to deploy and run containers The book will also show you how to use Docker containers in production in both single host set ups and in clusters and deploy them using Jenkins Kubernetes and Spinnaker As you advance you ll get to grips with monitoring securing and scaling Docker using tools such as Prometheus and Grafana Later you ll be able to deploy Docker containers to a variety of environments including the cloud native Amazon Elastic Kubernetes Service Amazon EKS before finally delving into Docker security concepts and best practices By the end of the Docker book you ll be able to not only work in a container driven environment confidently but also use Docker for both new and existing projects What you will learnGet up to speed with creating containers and understand how they workPackage and deploy your containers to a variety of platformsWork with containers in the cloud and on the Kubernetes platformDeploy and then monitor the health and logs of running containersExplore best practices for working with containers from a security perspectiveBecome familiar with scanning containers and using third party security tools and librariesWho this book is for If you re a software engineer new to containerization or a DevOps engineer responsible for deploying Docker containers in the cloud and building DevOps pipelines for container based projects you ll find this book useful This Docker containers book is also a handy reference guide for anyone working with a Docker based DevOps ecosystem or interested in understanding the security implications and best practices for working in container driven environments   **Docker on Amazon Web Services** Justin Menga,2018-08-30 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 **Continuous Delivery with Docker and Jenkins** Rafal Leszko,2017-08-24 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   **Implementing DevOps on AWS** Veselin Kantsev,2017-01-24 Bring the best out of DevOps and build deploy and maintain applications on AWS About This Book Work through practical examples and gain DevOps best practices to successfully deploy applications on AWS Successfully provision and operate distributed application systems and your AWS infrastructure using DevOps Perform Continuous Integration and deployment and fine tune the way you deliver on AWS Who This Book Is For This book is for system administrators and developers who manage AWS infrastructure and environments and are planning to implement DevOps in their organizations Those aiming for the AWS Certified DevOps Engineer certification will also find this book useful Prior experience of operating and managing AWS environments is expected What You Will Learn Design and deploy infrastructure as code within your AWS Virtual Private Cloud Implement Continuous Integration using AWS Services Configure EC2 instances using SaltStack Implement Continuous Deployment using Jenkins and the AWS CLI Collect important metrics and log data to gain more insight into infrastructure and applications Troubleshooting popular issues with some less known techniques using the AWS platform In Detail Knowing how to adopt DevOps in your organization is becoming an increasingly important skill for developers whether you work for a start up an SMB or an enterprise This book will help you to drastically reduce the amount of time spent on development and increase the reliability of your software deployments on AWS using popular DevOps methods of automation To start you will get familiar with the concept of IaC and will learn to design deploy and maintain AWS infrastructure Further on you ll see how to design and deploy a Continuous Integration platform on AWS using either open source or AWS provided tools services Following on from the delivery part of the process you will learn how to deploy a newly created tested and verified artefact to the AWS

infrastructure without manual intervention You will then find out what to consider in order to make the implementation of Configuration Management easier and more effective Toward the end of the book you will learn some tricks and tips to optimize and secure your AWS environment By the end of the book you will have mastered the art of implementing DevOps practices onto AWS Style and approach This book is packed full of real world examples demonstrating use cases that help you deploy DevOps best practices on AWS   Cloud Native Microservices Cookbook Varun Yadav,2024-04-17 Unlock the secrets of cloud native success with step by step recipes for conquering every stage of microservice deployment KEY FEATURES Develop test build and deploy with cloud native microservices Orchestrate microservices with containerization in the cloud Ensure cloud observability and security in implementation DESCRIPTION The convergence of microservices and cloud technology represents a significant paradigm shift in software development To fully leverage the potential of both integration from the outset of application development is crucial Cloud native microservices cookbook serve as a conduit harmonizing disparate elements of microservice construction by establishing a cohesive framework from inception to deployment This book meticulously outlines the various stages involved in launching an application utilizing cloud native microservices It commences with the foundational aspects of application development emphasizing microservice architecture principles such as configuration and service discovery considering cloud infrastructure Progressing through containerization continuous integration CI and continuous deployment CD pipelines the book explores the intricacies of orchestration high availability HA auto scalability and cloud security Subsequently it elucidates the significance of observability in monitoring microservices post deployment concluding with a comprehensive exploration of Infrastructure as Code IaC for cloud infrastructure provisioning Explore cloud native microservices basics using real world examples from the finance sector Follow curated recipes from concept to cloud deployment for a clear understanding and smooth application development WHAT YOU WILL LEARN Learn the fundamental principles of data architecture Practical methodology encompassing the development testing building containerization and orchestration of microservices Software development spanning from initial design to cloud hosting Achieve microservice auto scalability and high availability Utilizing cloud services and experimenting with newfound services confidently Meticulously track cloud expenditures alleviating any apprehension surrounding cost management WHO THIS BOOK IS FOR The book is ideal for software developers solution designers and DevOps engineers with a foundational understanding of programming concepts and professionals seeking to deepen their expertise in system architecture and full stack development within cloud environments TABLE OF CONTENTS 1 Microservices and Cloud 2 Developing Microservices and Test Cases 3 Externalize Application Configurations 4 Implementing Dynamic Services 5 Containerization Using Docker 6 Pipeline Automation for CI CD 7 Microservices Orchestration 8 Auto Scalability High Availability and Disaster Recovery 9 Cloud Security 10 Observability 11 Infrastructure Automation with IaC   Deploy Containers on AWS Shimon Ifrah,2019-10-15 Start deploying managing and scaling containerized applications into AWS

container infrastructure using Docker on Amazon EC2 Amazon Elastic Container Service ECS and AWS Elastic Kubernetes Service EKS This step by step practical book will cover all the available container services on AWS and review the usage of each one based on your required scale and cost Further you will see how to set up each environment and finally deploy manage and scale containerized applications on each one In the chapter about Elastic Kubernetes Service EKS you will learn the process of building and managing Kubernetes clusters on AWS and see how to provision hosts in a matter of minutes while deploying containers in seconds and making them available globally Deploy Containers on AWS shows you how to get started with AWS container offerings and manage production or test environments of containerized applications using a hands on approach with step by step instructions What You Will Learn Deploy and manage containers with Docker on Amazon EC2 Store and retrieve container images using the Amazon EC2 container registry Orchestrate containers with Amazon Elastic Container Service ECS Run Kubernetes managed infrastructure on AWS EKS Monitor manage back up and restore containers on AWS Who This Book Is ForDevelopers cloud and systems administrators and architects **AWS DevOps: Continuous Docker Deployment to AWS Fargate from GitLab** ,2019 Learn how to create an automated continuous DevOps pipeline for container based applications using AWS Fargate and GitLab

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