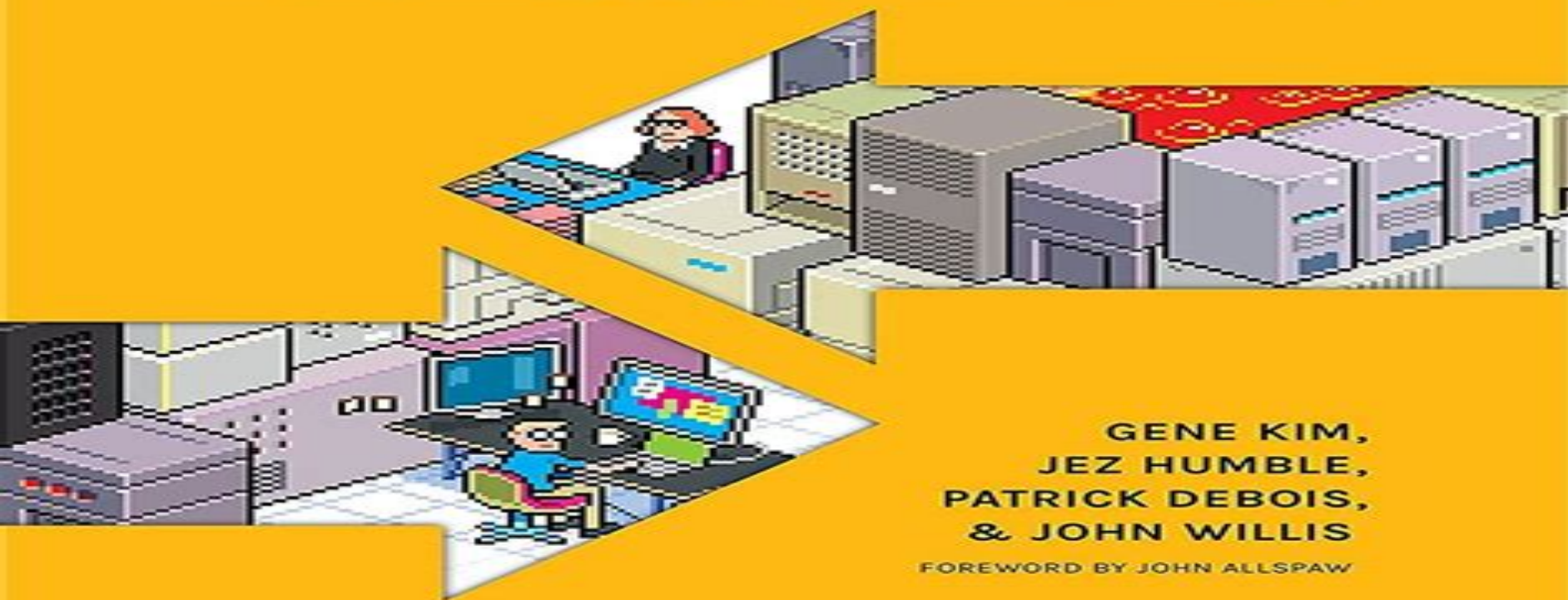# The DevOps Handbook

HOW TO CREATE WORLD-CLASS AGILITY, RELIABILITY, & SECURITY IN TECHNOLOGY ORGANIZATIONS

GENE KIM,
JEZ HUMBLE,
PATRICK DEBOIS,
& JOHN WILLIS

FOREWORD BY JOHN ALLSPAW

Devops Handbook World Class Reliability Organizations

James Shore,Shane Warden

Devops Handbook World Class Reliability Organizations:

The DevOps Handbook Gene Kim,Jez Humble,Patrick Debois,John Willis,2016-10-06 Increase profitability elevate work culture and exceed productivity goals through DevOps practices More than ever the effective management of technology is critical for business competitiveness For decades technology leaders have struggled to balance agility reliability and security The consequences of failure have never been greater whether it s the healthcare gov debacle cardholder data breaches or missing the boat with Big Data in the cloud And yet high performers using DevOps principles such as Google Amazon Facebook Etsy and Netflix are routinely and reliably deploying code into production hundreds or even thousands of times per day Following in the footsteps of The Phoenix Project The DevOps Handbook shows leaders how to replicate these incredible outcomes by showing how to integrate Product Management Development QA IT Operations and Information Security to elevate your company and win in the marketplace   The DevOps Handbook Gene Kim,Jez Humble,Patrick Debois,John Willis,Nicole Forsgren,2021-11-30 This award winning and bestselling business handbook for digital transformation is now fully updated and expanded with the latest research and new case studies The DevOps Handbook remains a must read for any organization seeking to scale up its IT capability and expand DevOps practices across multiple departments or lines of business Mike Perrow TechBeacon For years The DevOps Handbook has been the definitive guide for taking the successes laid out in the bestselling The Phoenix Project and applying them in any organization Now with this fully updated and expanded edition it s time to take DevOps out of the IT department and apply it across the full business Technology is now at the core of every company no matter the business model or product The theories and practices laid out in The DevOps Handbook are tools to be used by anyone from across the organization to create joy and succeed in the marketplace The second edition features 15 new case studies including stories from Adidas American Airlines Fannie Mae Target and the US Air Force In addition renowned researcher and coauthor of Accelerate Dr Nicole Forsgren provides her insights through new and updated material and research With over 100 pages of new content throughout the book this expanded edition is a must read for anyone who works with technology The DevOps Handbook is a practical roadmap to improving IT in any organization It s also the most valuable book on software development I ve read in the past 10 years Adam Hawkins software developer and host of the podcast SmallBatches   **Die Kunst der agilen Entwicklung** James Shore,2023-01-04 US Bestseller in 2 Auflage ein Muss f r jeden der mit oder in einem Softwareentwicklungsteam arbeitet leicht zu lesen pragmatisch und umfassend von den agilen Grunds tzen bis hin zu Details bei der agilen Softwareentwicklung hoher Praxisbezug durch zahlreiche Tipps und Fallbeispiele geeignet f r neu startende Projekte und auch bestehende Teams Um agile Entwicklung zu meistern m ssen Sie im Team lernen unz hlige M glichkeiten von Moment zu Moment zu bewerten und intuitiv die beste Vorgehensweise auszuw hlen Dieses Buch beschreibt umfassend und praxisorientiert die Grundlagen Methoden und Praktiken agiler Softwareentwicklung James Shore gibt wertvolle Ratschl ge f r den Projektstart

inkrementellen Entwurf Continuous Integration iterative Planung und testgetriebene Entwicklung sowie die Bereitstellung und Refactoring von Software die aus ber zwei Jahrzehnten Erfahrung mit Agilit t stammen Er bringt den State of the Art aus Extreme Programming Scrum Lean DevOps und mehr in ein zusammenh ngendes Ganzes und vermittelt dar ber hinaus dass Agilit t zu meistern auch bedeutet in Abh ngigkeit von Projektgegebenheiten und der Organisation in der Software entwickelt wird Praktiken anzupassen Diese 2 Auflage ist vollst ndig berarbeitet und von Grund auf neu geschrieben worden und ber cksichtigt dabei die Weiterentwicklung auf dem Gebiet der agilen Entwicklung der letzten 14 Jahre Neu aufgenommen wurden Themen wie agile Skalierung DevOps die Arbeit mit Remote Teams sowie das Agile Fluency Model zur Einf hrung und Anpassung von Agilit t an die Bed rfnisse des Unternehmens *The Routledge Companion to Managing Digital Outsourcing* Erik Beulen,Pieter Ribbers,2020-07-27 This unique comprehensive collection presents the latest multi disciplinary research in strategic digital outsourcing and digital business strategy providing a management decision making framework for successful long term relationships and collaboration based on trust and governance Part I Innovation in Business Models and Digital Outsourcing takes an internal company perspective on strategic digital outsourcing and the importance of trust in outsourcing relationships Part II Inter organizational Relations and Transfer explores topics underpinning service recipients and service suppliers relationships including governance knowledge transfer and legal aspects Part III From On site to Cloud discusses the challenges presented by moving to a cloud environment including risks and controls Part IV Developments to Come explores emerging technologies and their impact on digital outsourcing such as blockchain and the Internet of Things In a fiercely competitive market companies must transform their business models and embrace new approaches This Companion provides a comprehensive management overview of strategic digital outsourcing and is an invaluable resource for researchers and advanced students in business and strategic information management as well as a timely resource for systems professionals *.NET DevOps for Azure* Jeffrey Palermo,2019-10-21 Use this book as your one stop shop for architecting a world class DevOps environment with Microsoft technologies NET DevOps for Azure is a synthesis of practices tools and process that together can equip a software organization to move fast and deliver the highest quality software The book begins by discussing the most common challenges faced by developers in DevOps today and offers options and proven solutions on how to implement DevOps for your team Daily millions of developers use NET to build and operate mission critical software systems for organizations around the world While the marketplace has scores of information about the technology it is completely up to you to put together all the blocks in the right way for your environment This book provides you with a model to build on The relevant principles are covered first along with how to implement that part of the environment And while variances in tools language or requirements will change the needed implementation the DevOps model is the architecture for the working environment for your team You can modify parts of the model to customize it to your enterprise but the architecture will enable all of your teams and applications to accelerate in

performance What You Will Learn Get your NET applications into a DevOps environment in Azure Analyze and address the part of your DevOps process that causes delays or bottlenecks Track code using Azure Repos and conduct acceptance tests Apply the rules for segmenting applications into Git repositories Understand the different types of builds and when to use each Know how to think about code validation in your DevOps environment Provision and configure environments deploy release candidates across the environments in Azure Monitor and support software that has been deployed to a productionenvironment Who This Book Is For NET Developers who are using or want to use DevOps in Azure but don t know where to begin   Die Politisierbarkeit ökonomischer Modellwelten Carsten Damm,2024-10-24 Dem Zusammenhang zwischen wirtschaftswissenschaftlichen Modellen und modelliertem Wirtschaftsleben kommt eine Schl sselbedeutung bei der Bew ltigung gesellschaftlicher Krisen zu Wenn konomische Modellwelten mit anderen Welten interagieren spricht man von Performativit t Carsten Damm erforscht Ph nomene politisierender Performativit t die sich dadurch auszeichnen dass Personen konomische Modellwelten zur Rechtfertigung normativer Geltungsanspr che heranziehen Damit stellt er nicht nur kritische Fragen an das Verh ltnis zwischen Wirtschaftswissenschaft und Gesellschaft im Allgemeinen sondern behandelt diese auch empirisch durch ein interdisziplin r entwickeltes Forschungsdesign mit Anschlusspotenzial f r k nftige Analysen

   The DevSecOps Playbook Sean D. Mack,2023-09-27 A must read guide to a new and rapidly growing field in cybersecurity In The DevSecOps Playbook Deliver Continuous Security at Speed Wiley CISO and CIO Sean D Mack delivers an expert analysis of how to keep your business secure relying on the classic triad of people process and technology to examine in depth every component of DevSecOps In the book you ll learn why DevSecOps is as much about people and collaboration as it is about technology and how it impacts every part of our cybersecurity systems You ll explore the shared responsibility model at the core of DevSecOps as well as the people processes and technology at the heart of the framework You ll also find An insightful overview of DevOps and DevSecOps principles and practices Strategies for shifting security considerations to the front end of the development cycle Ways that the standard security model has evolved over the years and how it has impacted our approach to cybersecurity A need to read resource for security leaders security engineers and privacy practitioners across all industries The DevSecOps Playbook will also benefit governance risk and compliance specialists who seek to better understand how a transformed approach to cybersecurity can impact their business for the better   **Das Mindset von DevOps. Accelerate** Nicole Forsgren,Jez Humble,Gene Kim,2019-04-02 Wie leistungsstarke Teams und Unternehmen in der Softwarebranche entstehen k nnen Die F higkeit qualitativ hochwertige Software schnell und stabil bereitzustellen ist ein wesentlicher Werttreiber f r ein Unternehmen Auf der Basis eines intensiven Forschungsprojektes haben Nicole Forsgren Jez Humble und Gene Kim nicht nur die Faktoren untersucht und validiert die bedeutend f r die Softwarebereitstellung sind Sie haben 24 Schl sselkompetenzen identifiziert die zur Performance der Softwarebereitstellung statistisch signifikant beitragen Die wiederum f hren zu erstaunlichen Ergebnissen High Performer

auf dem Gebiet der Softwarebereitstellung schaffen beispielsweise 46 Mal mehr Code Fertigstellungen als Low Performer sind 440 Mal schneller im Prozess von Auftragsvergabe bis zur Fertigstellung oder weisen eine f nffach geringere Fehlerquote in der Software auf Das Destillat dieser bedeutenden Forschungsarbeit liegt nun in diesem Buch vor Es hilft Ihnen dabei nicht nur die Bereitstellungsperformance von Software zu verbessern Aufgrund der Besch ftigung mit den Schl sselkompetenzen k nnen Sie damit beginnen eine wirkliche Technologietransformation in Ihrer Organisation einzuleiten die zu Ihrem Kontext und Ihren Zielen passt Dazu sind nachhaltige Bem hungen Investitionen Fokus und Zeit erforderlich Die Forschung ist jedoch eindeutig Die Ergebnisse sind es wert diesen Weg zu gehen Aus dem Inhalt Performance und Kultur messen und ver ndern Continuous Delivery Technische Praktiken Architektur Systemtypen und Bereitstellungsperformance Management Praktiken f r die Softwarebranche Produkte und Prozesse Deloyment Pain und Burn out Mitarbeiterzufriedenheit Identit t und Engagement Transformationale F hrung F hrungskr fte und Manager High Performance Leadership und Management ber die Autoren Dr Nicole Forsgren ist CEO und Chefwissenschaftlerin bei DevOps Research and Assessment Jez Humble forscht zurzeit ber Hochleistungsteams in seinem Start up und lehrt an der Universit t von Berkeley Gene Kim ist Gr nder und Gastgeber der DevOps Enterprise Summit Konferenzen **Der Aufstieg des Internet der Dinge** Alexander Ziegler,2020-08-19 Mit dem Internet der Dinge erfasst die digitale Transformation die Industrie Angetrieben durch neue Wettbewerber aus dem Silicon Valley und China beschr nken sich Industrieunternehmen nicht mehr auf die Herstellung und den Verkauf von Sachg tern sondern entwickeln neue digitale Gesch ftsmodelle und eignen sich die Kernkompetenzen der Tech Unternehmen der Internet konomie an In Auseinandersetzung mit Vorreiterunternehmen aus Deutschland und den USA untersucht dieses Buch den Aufstieg des Internet der Dinge und die damit einhergehenden Herausforderungen **Secure, Resilient, and Agile Software Development** Mark Merkow,2019-12-11 A collection of best practices and effective implementation recommendations that are proven to work Secure Resilient and Agile Software Development leaves the boring details of software security theory out of the discussion as much as possible to concentrate on practical applied software security for practical people Written to aid your career as well as your organization the book shows how to gain skills in secure and resilient software development and related tasks The book explains how to integrate these development skills into your daily duties thereby increasing your professional value to your company your management your community and your industry Secure Resilient and Agile Software Development was written for the following professionals AppSec architects and program managers in information security organizations Enterprise architecture teams with application development focus Scrum teams DevOps teams Product owners and their managers Project managers Application security auditors With a detailed look at Agile and Scrum software development methodologies this book explains how security controls need to change in light of an entirely new paradigm on how software is developed It focuses on ways to educate everyone who has a hand in any software development project with appropriate

and practical skills to Build Security In After covering foundational and fundamental principles for secure application design this book dives into concepts techniques and design goals to meet well understood acceptance criteria on features an application must implement It also explains how the design sprint is adapted for proper consideration of security as well as defensive programming techniques The book concludes with a look at white box application analysis and sprint based activities to improve the security and quality of software under development **Transforming Legacy Organizations** Kris Østergaard,2019-06-03 Expert guidance on how to grow innovation and optimize already successful areas of established organizations Transforming Legacy Organizations provides real world advice and research based information on how to grow innovation by employing new technologies improving processes and establishing a culture of creativity and forward momentum Conventional business wisdom views innovation as the biggest advantage startups have over large established organizations often referred to as legacy organizations This belief is false especially when considering that 70% of all startups fail within 20 months of their first venture round The truth is innovation initiatives of legacy organizations have far better chances of succeeding Organizations with superior resources money customers suppliers data employees infrastructure can overcome challenges from new entrepreneurial ventures knowing how to leverage their underutilized advantage is key for achieving sustained long term innovation success Author Kris Oestergaard has been teaching established organizations around the world for over 15 years Transforming Legacy Organizations illustrates how to best pursue innovation to create future success This book helps leaders to Incorporate proven strategies and research based information into your organization s overall innovation initiatives Use new technologies to improve processes and increase innovation Learn to capitalize on your organization s existing resources to beat startups at their own game Transform innovative concepts into specific products services and business models Reinvent your organization to overcome disruptions in the market and challenges from new competitors Transforming Legacy Organizations Turn your Established Business into an Innovation Champion to Win the Future is a valuable resource for leaders of established companies such as C Suite executives senior managers and heads of business development innovation and digital teams   Microservices Antonio Bucchiarone,Nicola Dragoni,Schahram Dustdar,Patricia Lago,Manuel Mazzara,Victor Rivera,Andrey Sadovykh,2019-12-11 This book describes in contributions by scientists and practitioners the development of scientific concepts technologies engineering techniques and tools for a service based society The focus is on microservices i e cohesive independent processes deployed in isolation and equipped with dedicated memory persistence tools which interact via messages The book is structured in six parts Part 1 Opening analyzes the new and old challenges including service design and specification data integrity and consistency management and provides the introductory information needed to successfully digest the remaining parts Part 2 Migration discusses the issue of migration from monoliths to microservices and their loosely coupled architecture Part 3 Modeling introduces a catalog and a taxonomy of the most common microservices anti patterns and

identifies common problems It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches Next Part 4 is dedicated to various aspects of Development and Deployment Part 5 then covers Applications of microservices presenting case studies from Industry 4 0 Netflix and customized SaaS examples Eventually Part 6 focuses on Education and reports on experiences made in special programs both at academic level as a master program course and for practitioners in an industrial training As only a joint effort between academia and industry can lead to the release of modern paradigm based programming languages and subsequently to the deployment of robust and scalable software systems the book mainly targets researchers in academia and industry who develop tools and applications for microservices **The Art of Agile Development** James Shore,Shane Warden,2021-10-12 Most companies developing software employ something they call Agile But there s widespread misunderstanding of what Agile is and how to use it If you want to improve your software development team s agility this comprehensive guidebook s clear concrete and detailed guidance explains what to do and why and when to make trade offs In this thorough update of the classic Agile how to guide James Shore provides no nonsense advice on Agile adoption planning development delivery and management taken from over two decades of Agile experience He brings the latest ideas from Extreme Programming Scrum Lean DevOps and more into a cohesive whole Learn how to successfully bring Agile development to your team and organization or discover why Agile might not be for you This book explains how to Improve agility create the conditions necessary for Agile to succeed and scale in your organization Focus on value work as a team understand priorities provide visibility and improve continuously Deliver software reliably share ownership decrease development costs evolve designs and deploy continuously Optimize value take ownership of product plans budgets and experiments and produce market leading software **Team Topologies** Matthew Skelton,Manuel Pais,2023-11-28 Mit gut geplanten Teamstrukturen die Softwareentwicklung nachhaltig beschleunigen International richtungsweisende Methode um leistungsf hige Teams zu formen Anwendbares Praxiswissen Wie Sie funktionierende Teamgrenzen bestimmen und Team APIs entwerfen Kombiband Enth lt neben dem Hauptwerk Team Topologies das Workbook zur Interaktion verteilt arbeitender Teams Effektive Softwareteams sind f r jedes Unternehmen unerl sslich um kontinuierlich und nachhaltig Werte zu schaffen Team Topologies ist ein praktisches schrittweise anpassbares Modell f r die Gestaltung von Organisationen und die Interaktion von Teams Es basiert auf vier Teamtypen und drei Formen der Teaminteraktion und versteht Teams als entscheidenden Faktor der Wertsch pfung Mit der technologischen und organisatorischen Reife einer Organisation werden sich Teamstrukturen und Kommunikationswege kontinuierlich weiterentwickeln Im Bestseller Team Topologies pr sentieren die IT Berater Matthew Skelton und Manuel Pais eine grundlegende Weiterentwicklung des Organisationsdesigns f r die Entwicklung von Software Anhand von Fallstudien und Beispielen aus der Industrie beschreiben sie eine klar definierte Vorgehensweise f r die Interaktion und das Zusammenwirken von Teams Ihre Methode tr gt entscheidend dazu bei die Architektur von Software klarer und nachhaltiger

zu gestalten und Probleme zwischen Teams in wertvolle Signale f r eine sich selbst lenkende Organisation zu verwandeln Verstehen Sie das Conway sche Gesetz und seine Bedeutung Vereinfachen Sie mit vier Teamtypen die Organisation moderner Softwareteams Gestalten Sie Teamgrenzen und APIs und reduzieren Sie die kognitive Belastung Ihrer Entwicklungsteams Verbessern Sie durch drei Formen der Interaktion die Bereitstellung von Software Nutzen Sie den Betrieb der Software als sensorischen Input zur Selbststeuerung Ihrer Organisation   **IT Governance and Information Security** Yassine Maleh,Abdelkebir Sahid,Mamoun Alazab,Mustapha Belaissaoui,2021-12-21 IT governance seems to be one of the best strategies to optimize IT assets in an economic context dominated by information innovation and the race for performance The multiplication of internal and external data and increased digital management collaboration and sharing platforms exposes organizations to ever growing risks Understanding the threats assessing the risks adapting the organization selecting and implementing the appropriate controls and implementing a management system are the activities required to establish proactive security governance that will provide management and customers the assurance of an effective mechanism to manage risks IT Governance and Information Security Guides Standards and Frameworks is a fundamental resource to discover IT governance and information security This book focuses on the guides standards and maturity frameworks for adopting an efficient IT governance and information security strategy in the organization It describes numerous case studies from an international perspective and brings together industry standards and research from scientific databases In this way this book clearly illustrates the issues problems and trends related to the topic while promoting the international perspectives of readers This book offers comprehensive coverage of the essential topics including IT governance guides and practices IT service management as a key pillar for IT governance Cloud computing as a key pillar for Agile IT governance Information security governance and maturity frameworks In this new book the authors share their experience to help you navigate today s dangerous information security terrain and take proactive steps to measure your company s IT governance and information security maturity and prepare your organization to survive thrive and keep your data safe It aspires to provide a relevant reference for executive managers CISOs cybersecurity professionals engineers and researchers interested in exploring and implementing efficient IT governance and information security strategies   *Digital Technologies for Global Sourcing of Services* Ilan Oshri,Julia Kotlarsky,Leslie P. Willcocks,2021-01-09 This book constitutes revised selected papers from the 14th International Global Sourcing Workshop 2019 held in Obergurgl Austria in December 2019 The 10 contributions included were carefully reviewed and selected from a total of 36 submissions The book offers a review of the key topics in sourcing of services populated with practical frameworks that serve as a tool kit to students and managers The range of topics covered in this book is wide and diverse offering various perspectives on the employment of digital technologies in the context of sourcing services More specifically the book examines sourcing decisions and management practices around digital platforms robotic process automation and blockchain giving specific

attention to digital aspects of innovation in sourcing **Enterprise Design, Operations, and Computing. EDOC 2023 Workshops** Tiago Prince Sales,Sybren de Kinderen,Henderik A. Proper,Luise Pufahl,Dimka Karastoyanova,Marten van Sinderen,2024-03-01 This volume constitutes revised selected papers of several workshops the EDOC Forum and the Demonstrations and Doctoral Consortium track which were held in conjunction with the 27th International Conference on Enterprise Design Operations and Computing EDOC 2023 in Groningen The Netherlands during October 30 November 3 2023 The 18 revised full papers and 7 short papers presented in this book were carefully reviewed and selected from 37 submissions They stem from the following satellite events Workshop on Intelligent Digital Architecture Methods and Services for Industry 4 0 and Society 5 0 IDAMS Workshop on Empirical Methodologies for Research in Enterprise Architecture and Service Oriented Computing iRESEARCH Workshop on the Modelling and Implementation of Digital Twins for Complex Systems MIDas4CS Workshop on Service oriented Enterprise Architecture for Enterprise Engineering SoEA4EE EDOC Forum Demonstrations Track Doctoral Consortium **Cases on Enhancing Business Sustainability Through Knowledge Management Systems** Russ, Meir,2023-06-26 Artificial intelligence AI is becoming a reality for pioneering organizations while they are facing complex and multifaceted aspects of business sustainability with ambiguous and changing ethical norms and vague or nonexistent legislation The first quarter of the 21st century was identified as the beginning of the continuous ongoing and accelerating wave of simultaneous general purpose technologies revolutions causing accelerated shrinkage of the half life of knowledge Cases on Enhancing Business Sustainability Through Knowledge Management Systems presents teaching case studies exploring the formulation and implementation of knowledge management systems KMS in organizations Covering topics such as automation machine learning and socio ecological innovation this case book is an essential resource for business leaders and managers IT managers entrepreneurs government officials computer scientists students and educators of higher education librarians researchers and academicians

Terraform: Up and Running Yevgeniy Brikman,2017-03-13 Terraform has emerged as a key player in the DevOps world for defining launching and managing infrastructure as code IAC across a variety of cloud and virtualization platforms including AWS Google Cloud and Azure This hands on book is the fastest way to get up and running with Terraform Gruntwork co founder Yevgeniy Jim Brikman walks you through dozens of code examples that demonstrate how to use Terraform s simple declarative programming language to deploy and manage infrastructure with just a few commands Whether you re a novice developer aspiring DevOps engineer or veteran sysadmin this book will take you from Terraform basics to running a full tech stack capable of supporting a massive amount of traffic and a large team of developers Compare Terraform to other IAC tools such as Chef Puppet Ansible and Salt Stack Use Terraform to deploy server clusters load balancers and databases Learn how Terraform manages the state of your infrastructure and how it impacts file layout isolation and locking Create reusable infrastructure with Terraform modules Try out advanced Terraform syntax to

implement loops if statements and zero downtime deployment Use Terraform as a team including best practices for writing testing and versioning Terraform code   **Terraform: Up & Running** Yevgeniy Brikman,2019-09-06 Terraform has become a key player in the DevOps world for defining launching and managing infrastructure as code IaC across a variety of cloud and virtualization platforms including AWS Google Cloud Azure and more This hands on second edition expanded and thoroughly updated for Terraform version 0 12 and beyond shows you the fastest way to get up and running Gruntwork cofounder Yevgeniy Jim Brikman walks you through code examples that demonstrate Terraform s simple declarative programming language for deploying and managing infrastructure with a few commands Veteran sysadmins DevOps engineers and novice developers will quickly go from Terraform basics to running a full stack that can support a massive amount of traffic and a large team of developers Explore changes from Terraform 0 9 through 0 12 including backends workspaces and first class expressions Learn how to write production grade Terraform modules Dive into manual and automated testing for Terraform code Compare Terraform to Chef Puppet Ansible CloudFormation and Salt Stack Deploy server clusters load balancers and databases Use Terraform to manage the state of your infrastructure Create reusable infrastructure with Terraform modules Use advanced Terraform syntax to achieve zero downtime deployment

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