



SEI SERIES IN SOFTWARE ENGINEERING

# DevOps

A Software Architect's Perspective

Len Bass

Ingo Weber

Liming Zhu

# Devops By Len Bass

**Sami Yangui, Ismael Bouassida  
Rodriguez, Khalil Drira, Zahir Tari**

## **Devops By Len Bass:**

DevOps Len Bass,Ingo Weber,Liming Zhu,2015-05-08 The First Complete Guide to DevOps for Software Architects DevOps promises to accelerate the release of new software features and improve monitoring of systems in production but its crucial implications for software architects and architecture are often ignored In DevOps A Software Architect s Perspective three leading architects address these issues head on The authors review decisions software architects must make in order to achieve DevOps goals and clarify how other DevOps participants are likely to impact the architect s work They also provide the organizational technical and operational context needed to deploy DevOps more efficiently and review DevOps impact on each development phase The authors address cross cutting concerns that link multiple functions offering practical insights into compliance performance reliability repeatability and security This guide demonstrates the authors ideas in action with three real world case studies datacenter replication for business continuity management of a continuous deployment pipeline and migration to a microservice architecture Comprehensive coverage includes Why DevOps can require major changes in both system architecture and IT roles How virtualization and the cloud can enable DevOps practices Integrating operations and its service lifecycle into DevOps Designing new systems to work well with DevOps practices Integrating DevOps with agile methods and TDD Handling failure detection upgrade planning and other key issues Managing consistency issues arising from DevOps independent deployment models Integrating security controls roles and audits into DevOps Preparing a business plan for DevOps adoption rollout and measurement

*Engineering AI Systems* Len Bass,Qinghua Lu,Ingo Weber,Liming Zhu,2025-03-03 Master the Engineering of AI Systems The Essential Guide for Architects and Developers In today s rapidly evolving world integrating artificial intelligence AI into your systems is no longer optional *Engineering AI Systems Architecture and DevOps Essentials* is a comprehensive guide to mastering the complexities of AI systems engineering This book combines robust software architecture with cutting edge DevOps practices to deliver high quality reliable and scalable AI solutions Experts Len Bass Qinghua Lu Ingo Weber and Liming Zhu demystify the complexities of engineering AI systems providing practical strategies and tools for seamlessly incorporating AI in your systems You will gain a comprehensive understanding of the fundamentals of AI and software engineering and how to combine them to create powerful AI systems Through real world case studies the authors illustrate practical applications and successful implementations of AI in small to medium sized enterprises across various industries and offer actionable strategies for designing building and operating AI systems that deliver real business value Lifecycle management of AI models from data preparation to deployment Best practices in system architecture and DevOps for AI systems System reliability performance and security in AI implementations Privacy and fairness in AI systems to build trust and achieve compliance Effective monitoring and observability for AI systems to maintain operational excellence Future trends in AI engineering to stay ahead of the curve Equip yourself with the tools and understanding to lead your organization s AI initiatives Whether you are a

technical lead software engineer or business strategist this book provides the essential insights you need to successfully engineer AI systems Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details      *Future-Proof Software-Systems* Frank J. Furrer,2019-09-25 This book focuses on software architecture and the value of architecture in the development of long lived mission critical trustworthy software systems The author introduces and demonstrates the powerful strategy of Managed Evolution along with the engineering best practice known as Principle based Architecting The book examines in detail architecture principles for e g Business Value Changeability Resilience and Dependability The author argues that the software development community has a strong responsibility to produce and operate useful dependable and trustworthy software Software should at the same time provide business value and guarantee many quality of service properties including security safety performance and integrity As Dr Furrer states Producing dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality of service properties of the software systems The book presents extensive coverage of such concepts as Principle Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures tables examples and illustrative quotations Future Proof Software Systems provides a set of good engineering practices devised for integration into most software development processes dedicated to the creation of software systems that incorporate Managed Evolution

*DevOps for Developers* Michael Hüttermann,2012-10-24 DevOps for Developers delivers a practical thorough introduction to approaches processes and tools to foster collaboration between software development and operations Efforts of Agile software development often end at the transition phase from development to operations This book covers the delivery of software this means the last mile with lean practices for shipping the software to production and making it available to the end users together with the integration of operations with earlier project phases elaboration construction transition DevOps for Developers describes how to streamline the software delivery process and improve the cycle time that is the time from inception to delivery It will enable you to deliver software faster in better quality and more aligned with individual requirements and basic conditions And above all work that is aligned with the DevOps approach makes even more fun Provides patterns and toolchains to integrate software development and operations Delivers an one stop shop for kick starting with DevOps Provides guidance how to streamline the software delivery process      **Technical Debt in Practice** Neil Ernst,Rick Kazman,Julien Delange,2021-08-17 The practical implications of technical debt for the entire software lifecycle with examples and case studies Technical debt in software is incurred when developers take shortcuts and make ill advised technical decisions in the initial phases of a project only to be confronted with the need for costly and labor intensive workarounds later This book offers advice on how to avoid technical debt how to locate its sources and how to remove it It

focuses on the practical implications of technical debt for the entire software life cycle with examples and case studies from companies that range from Boeing to Twitter Technical debt is normal it is part of most iterative development processes But if debt is ignored over time it may become unmanageably complex requiring developers to spend all of their effort fixing bugs with no time to add new features and after all new features are what customers really value The authors explain how to monitor technical debt how to measure it and how and when to pay it down Broadening the conventional definition of technical debt they cover requirements debt implementation debt testing debt architecture debt documentation debt deployment debt and social debt They intersperse technical discussions with Voice of the Practitioner sidebars that detail real world experiences with a variety of technical debt issues

**Foundations of Scalable Systems** Ian Gorton,2022-06-30

In many systems scalability becomes the primary driver as the user base grows Attractive features and high utility breed success which brings more requests to handle and more data to manage But organizations reach a tipping point when design decisions that made sense under light loads suddenly become technical debt This practical book covers design approaches and technologies that make it possible to scale an application quickly and cost effectively Author Ian Gorton takes software architects and developers through the foundational principles of distributed systems You ll explore the essential ingredients of scalable solutions including replication state management load balancing and caching Specific chapters focus on the implications of scalability for databases microservices and event based streaming systems You will focus on Foundations of scalable systems Learn basic design principles of scalability its costs and architectural tradeoffs Designing scalable services Dive into service design caching asynchronous messaging serverless processing and microservices Designing scalable data systems Learn data system fundamentals NoSQL databases and eventual consistency versus strong consistency Designing scalable streaming systems Explore stream processing systems and scalable event driven processing

**Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment**

Jean-Michel Bruel,Manuel Mazzara,Bertrand Meyer,2019-01-18 This book constitutes revised selected papers from the First International Workshop on Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment DEVOPS 2018 held at the hateau de Villebrumier France in March 2018 The 17 papers presented in this volume were carefully reviewed and selected from 23 submissions They cover a wide range of problems arising from Devops and related approaches current tools rapid development deployment processes effects on team performance analytics trustworthiness microservices and related topics

[Software Architecture in Practice](#) Len Bass,Paul Clements,Rick Kazman,2021-06-30 The Definitive Practical Proven Guide to Architecting Modern Software Fully Updated with New Content on Mobility the Cloud Energy Management DevOps Quantum Computing and More Updated with eleven new chapters Software Architecture in Practice Fourth Edition thoroughly explains what software architecture is why it s important and how to design instantiate analyze evolve and manage it in disciplined and effective ways Three renowned

software architects cover the entire lifecycle presenting practical guidance expert methods and tested models for use in any project no matter how complex You ll learn how to use architecture to address accelerating growth in requirements system size and abstraction and to manage emergent quality attributes as systems are dynamically combined in new ways With insights for utilizing architecture to optimize key quality attributes including performance modifiability security availability interoperability testability usability deployability and more this guide explains how to manage and refine existing architectures transform them to solve new problems and build reusable architectures that become strategic business assets Discover how architecture influences and is influenced by technical environments project lifecycles business profiles and your own practices Leverage proven patterns interfaces and practices for optimizing quality through architecture Architect for mobility the cloud machine learning and quantum computing Design for increasingly crucial attributes such as energy efficiency and safety Scale systems by discovering architecturally significant influences using DevOps and deployment pipelines and managing architecture debt Understand architecture s role in the organization so you can deliver more value Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

**Beginning Azure DevOps** Adora Nwodo,2023-03-31 The perfect DevOps guide for beginning Azure users In Beginning Azure DevOps Planning Building Testing and Releasing Software Applications on Azure award winning software engineer Adora Nwodo delivers a beginner s guide to DevOps on the Microsoft powered Azure cloud platform In the book you ll learn to deploy Azure s built in DevOps tools required to plan build test and ship applications The author explains how to use Azure s functionality for project management version control code testing and continuous integration and continuous delivery CI CD She discusses how to plan software development projects from start to finish using Agile and Scrum techniques Readers will also find Updated source code repositories on GitHub with instructive practice exercises Strategies for improving collaboration and automating your code to cloud workflows Techniques for securing your code with advanced capabilities An essential resource for Azure novices who hope to learn about the myriad possibilities unlocked by Azure DevOps tools Beginning Azure DevOps will also earn a place in the libraries of software professionals familiar with other cloud platforms who hope to gain a foothold in the Azure cloud environment

*Systems Analysis and Design* David P. Tegarden,Binny Samuel,Roman Lukyanenko,Alan Dennis,Barbara Haley Wixom,2025-08-19 Enables readers to analyze and design systems not just read about IT Systems Analysis and Design An Object Oriented Approach with UML Seventh Edition captures the dynamic aspects of the field by keeping students focused on doing SAD while presenting the core set of skills that every systems analyst needs to know today and in the future The team of expert authors introduces each major technique explains what it is explains how to do it presents an example and provides opportunities for students to practice before they do it for real in a project After reading each chapter students will be able to perform that step in the system development process NEW TO THIS EDITION A greater emphasis on developing information systems using an incremental

and iterative approach and verifying validating and testing throughout the book Chapter on agile development Chapter that overviews the supporting workflows of the Unified Process Greatly expanded the Library Management System LMS example integrated throughout the chapters Converted the Campus Housing example to a set of Your Turn exercises Also suggested answers to each exercise are included in the Instructor's Manual Appendix section on sequence decision and looping repeating programming structures New and expanded sections on storytelling NoSQL data distribution and peer to peer architecture Expanded coverage of the interdependencies among the functional Chapter 3 structural Chapter 4 and behavioral Chapter 5 models New and revised figures throughout the book Updated MS Word templates that can be used for system requests system proposals use case descriptions CRC cards contracts method specifications use case test plan class test plan and class invariant test specifications WILEY ADVANTAGE Focuses on real world application by guiding students through practice problems and using the technique in a project Presents a contemporary object oriented approach using UML Unified Modeling Language Integrates stories feedback and advice from a diverse industry advisory board of IS professionals and consultants Provides chapters that each cover a different step in the Systems Development Life Cycle SDLC process

**Product-Focused Software Process Improvement** Xavier Franch,Tomi Männistö,Silverio

Martínez-Fernández,2019-11-18 This book constitutes the refereed proceedings of the 20th International Conference on Product Focused Software Process Improvement PROFES 2019 held in Barcelona Spain in November 2019 The 24 revised full papers 4 industry papers and 11 short papers presented were carefully reviewed and selected from 104 submissions The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs They are organized in topical sections on testing software development technical debt estimations continuous delivery agile project management microservices and continuous experimentation This book also includes papers from the co located events 10 project papers 8 workshop papers and 4 tutorial summaries

*Digital Resilience: Navigating Disruption and Safeguarding Data Privacy* Shishir Kumar Shandilya,Agni Datta,Yash Kartik,Atulya Nagar,2024-04-29 This book offers an in depth overview of digital resilience defined as the ability of individuals organizations and societies to adapt to and counter various digital threats such as cyberattacks data breaches and other forms of cyber threats Digital resilience not only enables proactive measures but also ensures fault tolerant planning and design The book elaborates on the necessary techniques and methods to achieve digital resilience Key methodologies including quantum computing post quantum cryptography nature inspired cybersecurity zero trust systems zero knowledge proofs multi party computation and the emerging field of space security are discussed in detail The book provides insights into artificial intelligence and machine learning examining their impact on society and organizations It critically analyses the role of cybersecurity in businesses emphasizing its importance for safety and economic stability In addition the book discusses notable cyber incidents offering valuable insights into digital resilience It serves as a comprehensive compilation featuring

key terms definitions case studies and references to existing literature and research in cybersecurity analytics information sciences future computing digital resilience and related fields

**Service-Oriented Computing** Sami Yanguel, Ismael Bouassida Rodriguez, Khalil Drira, Zahir Tari, 2019-10-25 This book constitutes the proceedings of the 17th International Conference on Service Oriented Computing ICSOC 2019 held in Toulouse France in October 2019 The 28 full and 12 short papers presented together with 7 poster and 2 invited papers in this volume were carefully reviewed and selected from 181 submissions The papers have been organized in the following topical sections Service Engineering Run time Service Operations and Management Services and Data Services in the Cloud Services on the Internet of Things Services in Organizations Business and Society and Services at the Edge

*Devops* Len Bass, Ingo Weber, Liming Zhu, 2015-05-01 DevOps promises to accelerate the release of new software features and improve monitoring of systems in production but its crucial implications for software architects and architecture are often ignored In DevOps A Software Architect's Perspective three leading architects address these issues head on The authors review decisions software architects must make in order to achieve DevOps goals and clarify how other DevOps participants are likely to impact the architect's work They also provide the organizational technical and operational context needed to deploy DevOps more efficiently and review DevOps impact on each development phase The authors also address cross cutting concerns that link multiple functions offering practical insights into compliance performance reliability repeatability and security This guide demonstrates the authors ideas in action with three real world case studies datacenter maintenance for business continuity management of a continuous deployment pipeline and migration to a microservice architecture Comprehensive coverage includes Why DevOps can require major changes in both system architecture and IT roles How virtualization and the cloud can enable DevOps practices Integrating operations and its service lifecycle into DevOps Designing new systems to work well with DevOps practices Overcoming cultural and communication differences between Dev and Ops Integrating DevOps with agile methods and TDD Handling failure detection upgrade planning and other key issues Managing consistency issues arising from DevOps independent deployment models Integrating security controls roles and audits into DevOps Preparing a business plan for DevOps adoption rollout and measurement

Systems Analysis and Design Alan Dennis, Barbara Wixom, David Tegarden, 2020-11-17 Systems Analysis and Design An Object Oriented Approach with UML Sixth Edition helps students develop the core skills required to plan design analyze and implement information systems Offering a practical hands on approach to the subject this textbook is designed to keep students focused on doing SAD rather than simply reading about it Each chapter describes a specific part of the SAD process providing clear instructions a detailed example and practice exercises Students are guided through the topics in the same order as professional analysts working on a typical real world project Now in its sixth edition this edition has been carefully updated to reflect current methods and practices in SAD and prepare students for their future roles as systems analysts Every essential area of systems analysis and design is clearly and



thoroughly covered from project management to analysis and design modeling to construction installation and operations The textbook includes access to a range of teaching and learning resources and a running case study of a fictitious healthcare company that shows students how SAD concepts are applied in real life scenarios Safety and Security of Cyber-Physical Systems Frank J. Furrer, 2022-07-20 Cyber physical systems CPSs consist of software controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators Because most of the functionality of a CPS is implemented in software the software is of crucial importance for the safety and security of the CPS This book presents principle based engineering for the development and operation of dependable software The knowledge in this book addresses organizations that want to strengthen their methodologies to build safe and secure software for mission critical cyber physical systems The book Presents a successful strategy for the management of vulnerabilities threats and failures in mission critical cyber physical systems Offers deep practical insight into principle based software development 62 principles are introduced and cataloged into five categories Business Provides direct guidance on architecting and operating dependable cyber physical systems for software managers and architects **Architektur für Websysteme** Daniel Takai, 2017-09-11 Dieses Buch enth lt das Wissen um die Architektur von Web bzw Gesch ftssystemen also Systemen die ber das Internet funktionieren und f r die Arbeit mit Menschen entworfen werden Es richtet sich also an Softwarearchitekten oder jene die Software Architekt werden m chten sowie Anforderungsingenieure und Manager die ihr technisches Wissen vertiefen m chten um den richtigen Fokus setzen zu k nnen Das Buch beschreibt drei Architekturstile f r die Serviceorientierte Architektur die Microservice Architektur und den Dom nengetriebenen Entwurf drei Entwurfsstandards f r Services Open Hosts und den Service Bus und enth lt ein eigenes Qualit tsmodell f r Web und Gesch ftssysteme das sich als Bewertungs und Planungsgrundlage eignet und aus 19 Qualit tsmerkmalen besteht Jedes Qualit tsmerkmal ist durch zahlreiche Techniken und Methoden detailliert beschrieben **Software Architecture for Big Data and the Cloud** Ivan Mistrik, Rami Bahsoon, Nour Ali, Maritta Heisel, Bruce Maxim, 2017-06-12 Software Architecture for Big Data and the Cloud is designed to be a single resource that brings together research on how software architectures can solve the challenges imposed by building big data software systems The challenges of big data on the software architecture can relate to scale security integrity performance concurrency parallelism and dependability amongst others Big data handling requires rethinking architectural solutions to meet functional and non functional requirements related to volume variety and velocity The book s editors have varied and complementary backgrounds in requirements and architecture specifically in software architectures for cloud and big data as well as expertise in software engineering for cloud and big data This book brings together work across different disciplines in software engineering including work expanded from conference tracks and workshops led by the editors Discusses systematic and disciplined approaches to building software architectures for cloud and big data with state of the art methods and techniques Presents case studies involving enterprise business and

government service deployment of big data applications Shares guidance on theory frameworks methodologies and architecture for cloud and big data     Software Architecture in Practice (2004) Len Bass, Paul Clements, Rick Kazman, 2022-04-25 Software Architecture in Practice DevOps DevOps GOTOP     **Design It!** Michael Keeling, 2017-10-18

Don't engineer by coincidence design it like you mean it Filled with practical techniques Design It is the perfect introduction to software architecture for programmers who are ready to grow their design skills Lead your team as a software architect ask the right stakeholders the right questions explore design options and help your team implement a system that promotes the rightilities Share your design decisions facilitate collaborative design workshops that are fast effective and fun and develop more awesome software With dozens of design methods examples and practical know how Design It shows you how to become a software architect Walk through the core concepts every architect must know discover how to apply them and learn a variety of skills that will make you a better programmer leader and designer Uncover the big ideas behind software architecture and gain confidence working on projects big and small Plan design implement and evaluate software architectures and collaborate with your team stakeholders and other architects Identify the right stakeholders and understand their needs dig for architecturally significant requirements write amazing quality attribute scenarios and make confident decisions Choose technologies based on their architectural impact facilitate architecture centric design workshops and evaluate architectures using lightweight effective methods Write lean architecture descriptions people love to read Run an architecture design studio implement the architecture you've designed and grow your team's architectural knowledge Good design requires good communication Talk about your software architecture with stakeholders using whiteboards documents and code and apply architecture focused design methods in your day to day practice Hands on exercises real world scenarios and practical team based decision making tools will get everyone on board and give you the experience you need to become a confident software architect

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