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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

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implications for software architects and architecture are often ignored. In DevOps: A Software Architect's Perspective, three leading architects address these issues head-on.

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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

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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.

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Len has over 50 years of experience in software development, 25 of those at the Software Engineering Institute of Carnegie Mellon. This Introduction to DevOps workshop by Len Bass is a one day, hands on course that touches on the basics of DevOps. Most importantly, it will focus

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on the technical side of DevOps, not the cultural or organizational side.

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is a set of practices intended to reduce the time between committing a change to a system and placing that change into normal production, while ensuring high quality.

DevOps Part I □ what is DevOps?

Biography. Bass received his Ph.D. degree

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in Computer Science from Purdue University in 1970 under the supervision of Paul Ruel Young with the thesis, entitled "Hierarchies based on computational complexity and irregularities of class determining measured sets.". Bass was appointed Professor of Computer Science at the

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University of Rhode Island in 1970.
[citation needed] In 1986, he moved to ...

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Pittsburgh, Pennsylvania. Len Bass is an award-winning author who has lectured widely around the world. His books on software architecture are standards. He and John Klein have just published a book titled "Deployment and Operations for Software Engineers".

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Len Bass - DevOps Summer School

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Academics and practitioners have not developed a unique definition for the term "DevOps." From an academic perspective,

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Len Bass, Ingo Weber, and Liming Zhu — three computer science researchers from the CSIRO and the Software Engineering Institute — suggested defining DevOps as "a set of practices intended to reduce the time between committing a change to a system and the change being placed into normal production, while ensuring high

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quality".

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From an academic perspective, Len Bass, Ingo Weber, and Liming Zhu—three computer science researchers from the CSIRO and the Software Engineering Institute—suggested defining DevOps as "a

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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

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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

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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

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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

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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

This is the eagerly-anticipated revision to one of the seminal books in the field of

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software architecture which clearly defines and explains the topic.

Software architecture—the conceptual glue that holds every phase of a project together for its many stakeholders—is widely recognized as a critical element in modern software development. Practitioners have

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increasingly discovered that close attention to a software system's architecture pays valuable dividends. Without an architecture that is appropriate for the problem being solved, a project will stumble along or, most likely, fail. Even with a superb architecture, if that architecture is not well understood or well

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communicated the project is unlikely to succeed. Documenting Software Architectures, Second Edition, provides the most complete and current guidance, independent of language or notation, on how to capture an architecture in a commonly understandable form. Drawing on their extensive experience, the authors

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Software architecture is foundational to

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details not only modeling techniques, but design, implementation, deployment, and system adaptation -- as well as a host of other topics -- putting the elements in context and comparing and contrasting them with one another. Rather than focusing on one method, notation, tool, or process, this new text/reference widely

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surveys software architecture techniques, enabling the instructor and practitioner to choose the right tool for the job at hand. Software Architecture is intended for upper-division undergraduate and graduate courses in software architecture, software design, component-based software engineering, and distributed systems; the

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text may also be used in introductory as well as advanced software engineering courses.

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the pace of innovation and software releases increases, IT departments are tasked to deliver value quickly and inexpensively to their business partners. With a focus on getting software into end-users hands faster, the ultimate goal of daily software updates is in sight to allow teams to ensure that they can release every

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change to the system simply and efficiently. This book presents an architectural approach to support modern application delivery methods and provide a broader architectural perspective, taking architectural concerns into account when deploying agile or continuous delivery approaches. The authors explain how to

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solve the challenges of implementing continuous delivery at the project and enterprise level, and the impact on IT processes including application testing, software deployment and software architecture. Covering the application of enterprise and software architecture concepts to the Agile and Continuous

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organizations

Job titles like "Technical Architect" and "Chief Architect" nowadays abound in software industry, yet many people suspect that "architecture" is one of the most overused and least understood terms in professional software development.

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ensure desired outcomes, and how seemingly small changes can affect a system's properties. It cultivates declarative knowledge. There is a difference between being able to hit a ball and knowing why you are able to hit it, what psychologists refer to as procedural knowledge versus declarative knowledge.

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This book will make you more aware of what you have been doing and provide names for the concepts. It emphasizes the engineering. This book focuses on the technical parts of software development and what developers do to ensure the system works not job titles or processes. It shows you how to build models and

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analyze architectures so that you can make principled design tradeoffs. It describes the techniques software designers use to reason about medium to large sized problems and points out where you can learn specialized techniques in more detail. It provides practical advice. Software design decisions influence the

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architecture and vice versa. The approach in this book embraces drill-down/pop-up behavior by describing models that have various levels of abstraction, from architecture to data structure design.

Organizations today often struggle to balance business requirements with ever-

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ecosystem off the ground

This book provides essential insights on the adoption of modern software engineering practices at large companies producing software-intensive systems, where hundreds or even thousands of engineers collaborate to deliver on new

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systems and new versions of already deployed ones. It is based on the findings collected and lessons learned at the Software Center (SC), a unique collaboration between research and industry, with Chalmers University of Technology, Gothenburg University and Malmö University as academic partners

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and Ericsson, AB Volvo, Volvo Car Corporation, Saab Electronic Defense Systems, Grundfos, Axis Communications, Jeppesen (Boeing) and Sony Mobile as industrial partners. The 17 chapters present the "Stairway to Heaven" model, which represents the typical evolution path companies move through as

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they develop and mature their software engineering capabilities. The chapters describe theoretical frameworks, conceptual models and, most importantly, the industrial experiences gained by the partner companies in applying novel software engineering techniques. The book's structure consists of six parts. Part

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I describes the model in detail and presents an overview of lessons learned in the collaboration between industry and academia. Part II deals with the first step of the Stairway to Heaven, in which R&D adopts agile work practices. Part III of the book combines the next two phases, i.e., continuous integration (CI) and continuous

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delivery (CD), as they are closely intertwined. Part IV is concerned with the highest level, referred to as "R&D as an innovation system," while Part V addresses a topic that is separate from the Stairway to Heaven and yet critically important in large organizations: organizational performance metrics that

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capture data, and visualizations of the status of software assets, defects and teams. Lastly, Part VI presents the perspectives of two of the SC partner companies. The book is intended for practitioners and professionals in the software-intensive systems industry, providing concrete models, frameworks

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and case studies that show the specific challenges that the partner companies encountered, their approaches to overcoming them, and the results.

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