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Architecture Building Blocks

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*From cloud computing to big  
data to mobile technologies,*

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***there is a vast supply of information being mined and collected. With an abundant amount of information being accessed, stored, and saved, basic controls are needed to protect and prevent security incidents as well as ensure***

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***business continuity. Applications of Security, Mobile, Analytic, and Cloud (SMAC) Technologies for Effective Information Processing and Management is a vital resource that discusses various research findings and innovations in the areas of big***

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***data analytics, mobile communication and mobile applications, distributed systems, and information security. With a focus on big data, the internet of things (IoT), mobile technologies, cloud computing, and information***

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***security, this book proves a vital resource for computer engineers, IT specialists, software developers, researchers, and graduate-level students seeking current research on SMAC technologies and information security management systems.***

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***It's not new to us that microservices are changing the way we conceive digital transformation, as organizations embrace digital transformation. Every day, more and more companies are betting on microservice adoption, and there***

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***is a strong reason for this: business needs to evolve and change at a fast pace, in order to adapt itself to satisfy a demanding 2.0 digital customer's experience in terms of overall service quality. Ensuring that such a change occurs seamlessly***

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***and progressively is one of the goals for microservices, and designing and building a solid microservice architecture is the way to guarantee that this happens from inception, by observing principles, best practices, design patterns, and***



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***reference models. This book provides a comprehensive walkthrough across the different concepts, frameworks, methodologies, and architecture building blocks that make up a microservice ecosystem and constitute a reference***

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***architecture from which you can get to multiple sub-architectures and implementations. Being an architect, you'll learn how to better design microservice-led and event-centric architectures in the right way from the early beginning, by showcasing***

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***learned lessons, best-practices do's, and don'ts. If you are starting your architecture career, it's the right place to get introduced to concepts and methodologies that you will then grow over time, as you acquire more experience. If you are a***

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***developer, but willing to jump into the exciting architecture world, this can also be good reading, however, be warned that some basic architectural understandings and concepts need to be first incorporated before walking through the***

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***advanced concepts presented throughout this book. This book requires you to have some minimal background around Docker and Microservices to better understand the more advanced concepts that are being explained.***

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***Explores cloud computing, breaking down the concepts, models, mechanisms, and architectures of this technology while allowing for the financial assessment of resources and how they compare to traditional storage systems.***

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***Right Your Software and Transform Your Career Righting Software presents the proven, structured, and highly engineered approach to software design that renowned architect Juval Löwy has practiced and taught around the world.***

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***Although companies of every kind have successfully implemented his original design ideas across hundreds of systems, these insights have never before appeared in print. Based on first principles in software engineering and a***



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***comprehensive set of matching tools and techniques, Löwy's methodology integrates system design and project design. First, he describes the primary area where many software architects fail and shows how to decompose a system into smaller building***

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***blocks or services, based on volatility. Next, he shows how to flow an effective project design from the system design; how to accurately calculate the project duration, cost, and risk; and how to devise multiple execution options. The method and***

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***principles in Righting Software apply regardless of your project and company size, technology, platform, or industry. Löwy starts the reader on a journey that addresses the critical challenges of software development today by righting software systems and***

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***projects as well as careers—and possibly the software industry as a whole. Software professionals, architects, project leads, or managers at any stage of their career will benefit greatly from this book, which provides guidance and knowledge that***

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***would otherwise take decades  
and many projects to acquire.  
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Build robust hybrid cloud***

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***solutions using AWS and  
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***and Concepts Second Edition***

***TOGAF® Version 9.1***

***IT Architecture For Dummies***

This book describes the essential components of the SCION secure Internet architecture, the first architecture designed foremost for strong security and high availability. Among its core features,

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SCION also provides route control, explicit trust information, multipath communication, scalable quality-of-service guarantees, and efficient forwarding. The book includes functional specifications of the network elements, communication protocols among these elements, data structures, and configuration files. In



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particular, the book offers a specification of a working prototype. The authors provide a comprehensive description of the main design features for achieving a secure Internet architecture. They facilitate the reader throughout, structuring the book so that the technical detail gradually increases, and supporting the text with a

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glossary, an index, a list of abbreviations, answers to frequently asked questions, and special highlighting for examples and for sections that explain important research, engineering, and deployment features. The book is suitable for researchers, practitioners, and graduate students who are interested in network security.

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For trainers free additional material of this book is available. This can be found under the "Training Material" tab. Log in with your trainer account to access the material. TOGAF is a framework - a detailed method and a set of supporting tools - for developing an enterprise architecture, developed by members of

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The Open Group Architecture Forum.TOGAF Version 9.1 is a maintenance update to TOGAF 9, addressing comments raised since the introduction of TOGAF 9 in 2009. It retains the major features and structure of TOGAF 9, thereby preserving existing investment in TOGAF, and adds further

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detail and clarification to what is already proven. It may be used freely by any organization wishing to develop an enterprise architecture for use within that organization (subject to the Conditions of Use). This Book is divided into seven parts: Part I - Introduction This part provides a high-level introduction to the

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key concepts of enterprise architecture and in particular the TOGAF approach. It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF. Part II - Architecture Development Method This is the core of TOGAF. It describes the

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TOGAF Architecture Development Method (ADM) a step-by-step approach to developing an enterprise architecture. Part III - ADM Guidelines & Techniques This part contains a collection of guidelines and techniques available for use in applying TOGAF and the TOGAF ADM. Part IV - Architecture Content Framework This part

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describes the TOGAF content framework, including a structured metamodel for architectural artifacts, the use of re-usable architecture building blocks, and an overview of typical architecture deliverables. Part V - Enterprise Continuum & Tools This part discusses appropriate taxonomies and tools to categorize and



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store the outputs of architecture activity within an enterprise.

**Part VI - TOGAF Reference Models** This part provides a selection of architectural reference models, which includes the TOGAF Foundation Architecture, and the Integrated Information Infrastructure Reference Model (III-RM).

**Part VII Architecture**

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Capability Framework This section looks at roles, Governance, compliance skills and much more practical guidance

Build your own hybrid cloud strategy with this comprehensive learning guide. Key

Features Build a hybrid cloud strategy for your organization with AWS and

OpenStack Leverage Hybrid Cloud to

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design a complex deployment pipeline  
Learn to implement security and  
monitoring best practices with real-world  
examples Book Description Hybrid cloud  
is currently the buzz word in the cloud  
world. Organizations are planning to adopt  
hybrid cloud strategy due to its advantages  
such as untested workloads, cloud-bursting,

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cloud service brokering and so on. This book will help you understand the dynamics, design principles, and deployment strategies of a Hybrid Cloud. You will start by understanding the concepts of hybrid cloud and the problems it solves as compared to a stand-alone public and private cloud. You will be

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delving into the different architecture and design of hybrid cloud. The book will then cover advanced concepts such as building a deployment pipeline, containerization strategy, and data storage mechanism. Next up, you will be able to deploy an external CMP to run a Hybrid cloud and integrate it with your OpenStack and AWS

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environments. You will also understand the strategy for designing a Hybrid Cloud using containerization and work with pre-built solutions like vCloud Air, VMware for AWS, and Azure Stack. Finally, the book will cover security and monitoring related best practices that will help you secure your cloud infrastructure. By the

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end of the book, you will be in a position to build a hybrid cloud strategy for your organization. What you will learn Learn the demographics and definitions of Hybrid Cloud Understand the different architecture and design of Hybrid Cloud Explore multi-cloud strategy and use it with your hybrid cloud Implement a

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Hybrid Cloud using CMP / Common API's  
Implement a Hybrid Cloud using  
Containers Overcome various challenges  
and issues while working with your Hybrid  
Cloud Understand how to monitor your  
Hybrid Cloud Discover the security  
implications in the Hybrid Cloud Who this  
book is for This book is targeted at cloud



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architects, cloud solution providers, DevOps engineers, or any working stakeholder who wants to learn about the hybrid cloud architecture. A basic understanding of public and private cloud is desirable.

Intelligent readers who want to build their own embedded computer systems--

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installed in everything from cell phones to cars to handheld organizers to refrigerators-- will find this book to be the most in-depth, practical, and up-to-date guide on the market. Designing Embedded Hardware carefully steers between the practical and philosophical aspects, so developers can both create their own

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devices and gadgets and customize and extend off-the-shelf systems. There are hundreds of books to choose from if you need to learn programming, but only a few are available if you want to learn to create hardware. Designing Embedded Hardware provides software and hardware engineers with no prior experience in embedded

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systems with the necessary conceptual and design building blocks to understand the architectures of embedded systems.

Written to provide the depth of coverage and real-world examples developers need, *Designing Embedded Hardware* also provides a road-map to the pitfalls and traps to avoid in designing embedded

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systems. Designing Embedded Hardware covers such essential topics as: The principles of developing computer hardware Core hardware designs Assembly language concepts Parallel I/O Analog-digital conversion Timers (internal and external) UART Serial Peripheral Interface Inter-Integrated Circuit Bus Controller

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Area Network (CAN) Data Converter Interface (DCI) Low-power operation This invaluable and eminently useful book gives you the practical tools and skills to develop, build, and program your own application-specific computers.

SOA Source Book

SCION: A Secure Internet Architecture

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A practical guide to effectively designing  
enterprise-grade solutions with OCI  
services

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distributed systems using Spring Boot

A Craftsman's Guide to Software Structure  
and Design

Critical Care

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Breakthrough Internet-based Architectures and Methodologies

Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency,



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and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right

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choices for your application?  
How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros

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and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply

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those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively

Make informed

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decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research

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upon which modern databases are built Peek behind the scenes of major online services, and learn from their architectures An argument that operational urban planning can be improved by the application of the tools of

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urban economics to the design of regulations and infrastructure.

Urban planning is a craft learned through practice. Planners make rapid decisions that have an immediate impact on the ground—the width of streets, the

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minimum size of land parcels, the heights of buildings. The language they use to describe their objectives is qualitative—“sustainable,” “livable,” “resilient”—often with no link to measurable outcomes.



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Urban economics, on the other hand, is a quantitative science, based on theories, models, and empirical evidence largely developed in academic settings. In this book, the eminent urban planner Alain Bertaud argues

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that applying the theories of urban economics to the practice of urban planning would greatly improve both the productivity of cities and the welfare of urban citizens. Bertaud explains that markets provide the

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indispensable mechanism for cities' development. He cites the experience of cities without markets for land or labor in pre-reform China and Russia; this “urban planners' dream” created inefficiencies and waste.

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Drawing on five decades of urban planning experience in forty cities around the world, Bertaud links cities' productivity to the size of their labor markets; argues that the design of infrastructure and markets can

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complement each other;  
examines the spatial distribution  
of land prices and densities;  
stresses the importance of  
mobility and affordability; and  
critiques the land use regulations  
in a number of cities that aim at

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redesigning existing cities instead of just trying to alleviate clear negative externalities.

Bertaud concludes by describing the new role that joint teams of urban planners and economists could play to improve the way

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cities are managed.

Helmut Holzapfel's Urbanism and Transport, a bestseller in its own country, now available in English, examines the history and the future of urban design for transport in major European

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cities. Urbanism and Transport shows how the automobile has come to dominate the urban landscape of cities throughout the world, providing thought-provoking analysis of the societal and ideological precursors that



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have given rise to these developments. It describes the transformation that occurred in urban life through the ongoing separation of social functions that began in the 1920s and has continued to produce today's

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phenomenon of fractured urban experience – a sort of island urbanism. Professor Holzapfel examines the vital relation between the house and the street in the urban environment and explains the importance of

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small-scale, mixed-use urban development for humane city living, contrasting such developments with the overpowering role that the automobile typically plays in today's cities. Taking the insights

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gained from its historical analysis with a special focus on Germany and the rise of fascism, the book provides recommendations for architects and engineers on how urban spaces, streets, structures and transport networks can be

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more successfully integrated in the present day. Urbanism and Transport is a key resource for architects, transport engineers, urban and spatial planners, and students providing essential basic knowledge about the urban

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situation and the challenges of reclaiming cities to serve the basic needs of people rather than the imperatives of automobile transport.

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project manager with prior  
experience of using Citrix  
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technologies for desktop  
virtualization and want to further  
explore the power of XenApp®  
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virtualization, then this book is  
for you.

Concepts, Technology &  
Architecture  
API Architecture

New Carbon Architecture

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Architecting the Industrial  
Internet

A Unified Architecture for  
Network, Security, and Storage  
Services

Spatializing Justice

IP Storage Networking: Straight

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to the Core is your complete blueprint for planning, deploying, managing, and maximizing the business value of enterprise storage. Gary Orenstein introduces IP storage, iSCSI, and related technologies;

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then shows how to integrate them into an overall storage strategy for maximizing availability and business agility. Coverage includes: architecture; software infrastructure; virtualization; security; storage

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policies; outsourcing; and measuring ROI on enterprise storage investments.

An architect's guide to designing, implementing, and integrating DevOps in the enterprise Key Features Design

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a DevOps architecture that is aligned with the overall enterprise architectureDesign systems that are ready for AIOps and make the move toward NoOpsArchitect and implement DevSecOps pipelines,

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securing the DevOps  
enterpriseBook Description  
Digital transformation is the  
new paradigm in enterprises,  
but the big question remains: is  
the enterprise ready for  
transformation using native

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technology embedded in Agile/DevOps? With this book, you'll see how to design, implement, and integrate DevOps in the enterprise architecture while keeping the Ops team on board and

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remaining resilient. The focus of the book is not to introduce the hundreds of different tools that are available for implementing DevOps, but instead to show you how to create a successful DevOps



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architecture. This book provides an architectural overview of DevOps, AIOps, and DevSecOps – the three domains that drive and accelerate digital transformation. Complete with step-by-step explanations of

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essential concepts, practical examples, and self-assessment questions, this DevOps book will help you to successfully integrate DevOps into enterprise architecture. You'll learn what AIOps is and what

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value it can bring to an enterprise. Lastly, you will learn how to integrate security principles such as zero-trust and industry security frameworks into DevOps with DevSecOps. By the end of this

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DevOps book, you'll be able to develop robust DevOps architectures, know which toolsets you can use for your DevOps implementation, and have a deeper understanding of next-level DevOps by

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implementing Site Reliability Engineering (SRE). What you will learn  
Create DevOps architecture and integrate it with the enterprise architecture  
Discover how DevOps can add value to the

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quality of IT delivery  
Explore strategies to scale DevOps for an enterprise  
Architect SRE for an enterprise as next-level DevOps  
Understand AIOps and what value it can bring to an enterprise  
Create your AIOps

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architecture and integrate it into DevOps  
Create your DevSecOps architecture and integrate it with the existing DevOps setup  
Apply zero-trust principles and industry security frameworks to DevOps  
Who this

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book is for This book is for enterprise architects and consultants who want to design DevOps systems for the enterprise. It provides an architectural overview of DevOps, AIOps, and



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DevSecOps. If you're looking to learn about the implementation of various tools within the DevOps toolchain in detail, this book is not for you.

For many decades, IT infrastructure has provided the

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foundation for successful application deployments. Yet, general knowledge of infrastructures is not widespread. Experience shows that software developers, system administrators, and

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project managers usually have little knowledge of the large influence IT infrastructures have on the performance, availability and security of software applications. This book explains the concepts, history,

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and implementation of a robust and balanced IT infrastructure. Although many of books can be found on individual infrastructure building blocks, this is the first book to describe all of them: datacenters,

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servers, networks, storage, virtualization, operating systems, and end user devices. Whether you need an introduction to infrastructure technologies, a refresher course, or a study guide for a

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computer science class, you will find that the presented building blocks and concepts provide a solid foundation for understanding the complexity of today's IT infrastructures.

“ Green buildings ” that slash

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energy use and carbon emissions are all the rage, but they aren't enough. The hidden culprit is embodied carbon—the carbon emitted when materials are mined, manufactured, and transported—comprising some

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ten percent of global emissions. With the built environment doubling by 2030, buildings are a carbon juggernaut threatening to overwhelm the climate. It doesn't have to be this way. Like never before in history,



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buildings can become part of the climate solution. With biomimicry and innovation, we can pull huge amounts of carbon out of the atmosphere and lock it up as walls, roofs, foundations, and insulation. We

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can literally make buildings out of the sky with a massive positive impact. The New Carbon Architecture is a paradigm-shifting tour of the innovations in architecture and construction that are making

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this happen. Office towers built from advanced wood products; affordable, low-carbon concrete alternatives; plastic cleaned from the oceans and turned into building blocks. We can even grow insulation from mycelium.

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A tour de force by the leaders in the field, *The New Carbon Architecture* will fire the imagination of architects, engineers, builders, policy makers, and everyone else captivated by the possibility of

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architecture to heal the climate and produce safer, healthier, and more beautiful buildings. Bruce King, a structural engineer for thirty-five years, is Founder and Director of the Ecological Building Network

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(EBNet) and author of Buildings of Earth and Straw, Making Better Concrete, and Design of Straw Bale Buildings. He lives in San Rafael, California.

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How to Architect Your Business  
for Sustained Success

Building a Future-Proof Cloud  
Infrastructure

Designing Embedded Hardware

Building Evolutionary

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## Enterprise DevOps for Architects

A solid introduction to the practices, plans, and skills required for developing a smart system architecture Information architecture combines IT skills with business skills in order to align the



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IT structure of an organization with the mission, goals, and objectives of its business. This friendly introduction to IT architecture walks you through the myriad issues and complex decisions that many organizations face when setting up IT systems to work in sync with

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business procedures. Veteran IT professional and author Kirk Hausman explains the business value behind IT architecture and provides you with an action plan for implementing IT architecture procedures in an organization. You'll explore the many challenges

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that organizations face as they attempt to use technology to enhance their business's productivity so that you can gain a solid understanding of the elements that are required to plan and create an architecture that meets specific business goals. Defines IT

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architecture as a blend of IT skills and business skills that focuses on business optimization, business architecture, performance management, and organizational structure Uncovers and examines every topic within IT architecture including network, system, data,

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services, application, and more  
Addresses the challenges that organizations face when attempting to use information technology to enable profitability and business continuity While companies look to technology more than ever to enhance productivity, you should

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look to IT Architecture For Dummies for guidance in this field. For many decades, IT infrastructure has provided the foundation for successful application deployment. Yet, general knowledge of infrastructures is still not widespread. Experience shows that

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software developers, system administrators, and project managers often have little knowledge of the big influence IT infrastructures have on the performance, availability and security of software applications. This book explains the concepts,

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history, and implementation of IT infrastructures. Although many of books can be found on individual infrastructure building blocks, this is the first book to describe all of them: datacenters, servers, networks, storage, virtualization, operating systems, and end user



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devices. Whether you need an introduction to infrastructure technologies, a refresher course, or a study guide for a computer science class, you will find that the presented building blocks and concepts provide a solid foundation for understanding the complexity of

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today's IT infrastructures.

Over the past 20 years, software architectures have significantly contributed to the development of complex and distributed systems. Nowadays, it is recognized that one of the critical problems in the design and development of any

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complex software system is its architecture, i.e. the organization of its architectural elements. Software Architecture presents the software architecture paradigms based on objects, components, services and models, as well as the various architectural techniques and

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methods, the analysis of architectural qualities, models of representation of architectural templates and styles, their formalization, validation and testing and finally the engineering approach in which these consistent and autonomous elements can be

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tackled.

In 2018, '77 Building Blocks of Digital Transformation: The Digital Capability Model' was published to help 'digital practitioners' working in the digital space. Since then, quite a few readers have suggested writing a book about digital

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transformation for 'the general public' interested in learning more than basics of digital transformation. That is how the book '77 Building Blocks of Digital Transformation: Simply Explained' has been created. This book is intended to deliver the key

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messages of 'the 77 Building Blocks' to the general public. It aims to help the general public understand 'actual practices' in the digital space. This is not a theory book that discusses the academical ideas and concepts of digital transformation, but a 'practical' field

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book that describes the proven digital capabilities as the building blocks of digital transformation. This book does however not fully cover the technical detail of the Maturity Model described in '77 Building Blocks of Digital transformation: The Digital



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Capability Model' that aims to help digital practitioners with measuring digital maturity. Instead, this book provides examples of higher maturity indicators as an introduction to the Maturity Model. If you are looking for a deep dive into the Maturity Model, refer to '77

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Building Blocks of Digital transformation: The Digital Capability Model'. This book covers:

1. Digital Customer Experience Management
- Digital Customer Journey Management
- User Research
- Usability Analysis
- User Experience Designing
- User

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Management -Channel Mix &  
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Integration -Multi-Device  
Presentation6. Knowledge &  
Content Management -Knowledge  
Collaboration -Knowledge Base  
Management -Content Lifecycle  
Management -Digital Asset  
Management -Content Aggregation

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& Syndication -Web Content  
Management  
7. Customization &  
Personalization -Customer  
Preference Management -Customer  
Communication Management  
-Social Behaviour Management  
-Interaction Tracking &  
Management -Customer Loyalty

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-Web Analytics -Reporting &



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Project Management -Digital Design  
Authority -Digital Capability  
Development -Digital Capability  
Introduction -Digital Service

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Applications

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**Learn the ins and outs of the Industrial Internet of Things through subjects ranging from its history and evolution, right up to what the future holds. About**

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