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Solution Architecture with .NET Designing Security Architecture Solutions Solutions Architect's Handbook Structures and Architecture Enterprise Architecture for Strategic Management of Modern IT Solutions Introduction to Solution Architecture Software Architecture Knowledge Management Reference Architecture for the Telecommunications Industry Software Product Lines Architecting Cloud Computing Solutions The IMS Building Services The Builder Architecture Program Report, 1993 Death and Architecture Inland Architect and News Record The Sugar Cane The American Architect and Building News Reflections on Computer Aids to Design and Architecture The American Builder Jamil Hallal Jay Ramachandran Saurabh Shrivastava Paulo J. Cruz Tiko Iyamu Alan McSweeney Muhammad Ali Babar Christian Czarnecki Timo Käkölä Kevin L. Jackson Miikka Poikselkä University of Michigan. College of Architecture and Urban Planning James Stevens Curi Nicholas Negroponte

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learn about the responsibilities of a net solution architect and explore solution architecture principles devops solutions and design techniques and standards with hands on examples of design patterns key featuresfind out what are the essential personality traits and responsibilities of a solution architectbecome well versed with architecture principles and modern design patterns with hands on examplesdesign modern web solutions and make the most of azure devops to automate your development life cyclebook description understanding solution architecture is a must to build and integrate robust systems to meet your client s needs this makes it crucial for a professional net software engineer to learn the key skills of a net solution architect to create a unique digital journey and build solutions for a wide range of industries from strategy and design to implementation with this handbook developers working with the net technology will be able to put their knowledge to work the book takes a hands on approach to help you become an effective solution architect you ll start by learning the principles of the software development life cycle sdlc the roles and responsibilities of a net solution architect and what makes a great net solution architect as you make progress through the chapters you ll understand the principles of solution architecture and how to design a solution and explore designing layers and microservices you ll complete your learning journey by uncovering modern design patterns and techniques for designing and building digital solutions by the end of this book you ll have learned how to architect your modern web solutions with asp net core and microsoft azure and be ready to automate your development life cycle with azure devops what you will learnunderstand the role and core responsibilities of a net solution architectstudy popular uml unified modeling language diagrams for solution architecturework with modern design patterns with the help of hands on examplesbecome familiar with microservices and designing layersdiscover how to design modern web solutionsautomate your development life cycle with azure devopswho this book is for this book is for intermediate and advanced net developers and software engineers who want to advance their careers and expand their knowledge of solution architecture and design principles beginner or intermediate level solution architects looking for tips and tricks to build large scale net solutions will find this book useful

the first guide to tackle security architecture at the softwareengineering level computer security has become a critical business concern and assuch the responsibility of all it professionals in thisgroundbreaking book a security expert with at t business

srenowned network services organization explores system securityarchitecture from a software engineering perspective he explainswhy strong security must be a guiding principle of the developmentprocess and identifies a common set of features found in mostsecurity products explaining how they can and should impact thedevelopment cycle the book also offers in depth discussions ofsecurity technologies cryptography database security applicationand operating system security and more

third edition out now with coverage on generative ai clean architecture edge computing and more key features turn business needs into end to end technical architectures with this practical guide assess and overcome various challenges while updating or modernizing legacy applications future proof your architecture with iot machine learning and quantum computing book descriptionbecoming a solutions architect requires a hands on approach and this edition of the solutions architect s handbook brings exactly that this handbook will teach you how to create robust scalable and fault tolerant solutions and next generation architecture designs in a cloud environment it will also help you build effective product strategies for your business and implement them from start to finish this new edition features additional chapters on disruptive technologies such as internet of things iot quantum computing data engineering and machine learning it also includes updated discussions on cloud native architecture blockchain data storage and mainframe modernization with public cloud the solutions architect s handbook provides an understanding of solution architecture and how it fits into an agile enterprise environment it will take you through the journey of solution architecture design by providing detailed knowledge of design pillars advanced design patterns anti patterns and the cloud native aspects of modern software design by the end of this handbook you ll have learned the techniques needed to create efficient architecture designs that meet your business requirements what you will learn explore the various roles of a solutions architect in the enterprise landscape implement key design principles and patterns to build high performance cost effective solutions choose the best strategies to secure your architectures and increase their availability modernize legacy applications with the help of cloud integration understand how big data processing machine learning and iot fit into modern architecture integrate a devops mindset to promote collaboration increase operational efficiency and streamline production who this book is for this book is for software developers system engineers devops engineers architects and team leaders who already work in the it industry and aspire to become solutions architect professionals existing solutions architects

who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills to get started you'll need a good understanding of the real world software development process and general programming experience in any language

although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures to take this interaction to a higher level there is a need to stimulate the inventive and creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process exploiting together new concepts applications and challenges this set of book of abstracts and full paper searchable cd rom presents selected papers presented at the 3rd international conference on structures and architecture conference icsa2016 organized by the school of architecture of the university of minho guimarães portugal july 2016 to promote the synergy in the collaboration between the disciplines of architecture and structural engineering

the popularity of enterprise architecture ea has increased in the last two decades in both business and academic domains despite the cumulative interest from all sectors the implementation and practice of ea have been entangled with numerous challenges and complexities consequently some organisations continue to theorise the concept which has ramifications on practice and return on investment roi this has led to many studies that have been conducted to understand the complexities impacting the implementation and practice of ea in organisations yet the trajectory of some convolutions remains mystery in many quarters this attributes to the struggle to articulate the value of ea in many environments hence many organisations find it difficult to apply ea for strategic management of modern information technology it solutions enterprise architecture for strategic management of modern it solutions provides guidance on how to employ ea in deploying and managing it solutions from pragmatic and implementable strategies perspectives until now implementation and practice of ea have been slow despite its growing popularity and interest from all sectors the author employs sociotechnical theories such as actor network theory ant and structuration theory st as lenses to examine and explain why and how challenges and complexities exist and derail the

implementation or practice of ea in organisations by doing so this serves to enable practitioners and readers to gain fresh insights on why the challenges exist and how they can be addressed in creating collaborative capabilities for business enhancement sustainability and competitiveness the book provides detailed insights on how to apply ea for organisational purposes from three main fronts first it explains the implications that lack of understanding of ea have on organisational activities and processes second it examines the challenges and complexities that hinder the implementation and practice of ea in organisations third it proposes models and frameworks on how ea can be applied for strategic management of modern it solutions in organisations written for postgraduates researchers academics and professionals in the fields of ea it and information systems this book provides a valuable resource that will enable and enhance implementation and practice of ea including future studies

solution architecture is concerned with the design and definition of information technology solutions so they can be subsequently implemented used operated and supported securely and efficiently the solution exists to operate business processes in order to achieve business objectives meet a business need and deliver business value solution architecture is concerned with engaging with the originating business function looking for the solution to create a solution vision and design a solution that meet their needs subject to a range of constraints such as cost and affordability time to deliver and organisational standards the solution must exist as a coherent whole solutions must be designed consistently across the solution landscape and make optimum use of appropriate technologies solution architecture must focus on creating usable and useful solutions solution architecture must have a standard reliable approach to business engagements and the design of solution that emerge from them solution architecture must work collaboratively with other information technology functions other architecture roles business analysis and service management to ensure continuity along the solution delivery journey effective solution architecture involves have a depth and breadth of solution delivery and technical experience to be able to identify solution design options quickly being able to understand the detail of the solution while maintaining a view of the wider and higher context of the business need for the solution and being able to explain both these views of sets of information being able to communicate effectively with all parties technical and business involved in the solution design and delivery journey assist with

decision making be realistic and make appropriate compromises and design choices in order to create the best solution design being able to apply technology appropriately and with selective innovation and the desire to constantly acquire new knowledge and ways of applying technology being involved in the solution delivery journey along its entire length being able to be the solution advocate and subject matter expert this book is aimed at a variety of potential readers existing solution architects who want to have a more theoretical and a broader understanding of their role existing or new managers of solution architecture functions who want to create a high performing practice within their organisations and who want to articulate the benefits and value solution architect can contribute to the information technology function and the wider business and the potential it can offer to the business organisation managers of information technology functions who want to understand what solution architecture is where it fits into the wider architecture context and disciplines and solution delivery and operation and the value it can contribute to both the information technology function and the wider business other information technology architects who want to understand how the architecture disciplines can work together to deliver value business analysts and managers of business analysis functions who want to understand how they can work more closely with the solution architecture function in order to provide the business with a better overall service other information technology personnel who want to move into solution architecture and who want to understand what it is consulting organisations and individuals who want to develop and offer value adding solution architecture services

a software architecture manifests the major early design decisions which determine the system's development deployment and evolution thus making better architectural decisions is one of the large challenges in software engineering software architecture knowledge management is about capturing practical experience and translating it into generalized architectural knowledge and using this knowledge in the communication with stakeholders during all phases of the software lifecycle this book presents a concise description of knowledge management in the software architecture discipline it explains the importance of sound knowledge management practices for improving software architecture processes and products and makes clear the role of knowledge management in software architecture and software development processes it presents many approaches that are in use in software companies today approaches that have been used in other domains and approaches

under development in academia after an initial introduction by the editors the contributions are grouped in three parts on architecture knowledge management strategies and approaches for managing architectural knowledge and tools and techniques for managing architectural knowledge the presentation aims at information technology and software engineering professionals in particular software architects and software architecture researchers for the industrial audience the book gives a broad and concise understanding of the importance of knowledge management for improving software architecture process and building capabilities in designing and evaluating better architectures for their mission and business critical systems for researchers the book will help to understand the applications of various knowledge management approaches in an industrial setting and to identify research challenges and opportunities

this book reflects the tremendous changes in the telecommunications industry in the course of the past few decades shorter innovation cycles stiffer competition and new communication products it analyzes the transformation of processes applications and network technologies that are now expected to take place under enormous time pressure the international telecommunication union itu and the tm forum have provided reference solutions that are broadly recognized and used throughout the value chain of the telecommunications industry and which can be considered the de facto standard the book describes how these reference solutions can be used in a practical context it presents the latest insights into their development highlights lessons learned from numerous international projects and combines them with well founded research results in enterprise architecture management and reference modeling the complete architectural transformation is explained from the planning and set up stage to the implementation featuring a wealth of examples and illustrations the book offers a valuable resource for telecommunication professionals enterprise architects and project managers alike

between july 1999 and june 2005 a group of european companies research institutes and universities executed the eureka itea projects esaps cafÉ and families on the topic of product line engineering the projects originated from the need of the industry to improve software engineering performance by organizing product development in product lines the results obtained within the projects have been implemented in several large industries e g automotive e business medical systems and mobile phones they

involve a radical shift in software construction and production the most important research results of the projects are collected in this book product line engineering was already applied within industry in the 1980s and presumably earlier in the 1980s good architects in many telecommunications companies based their architectures on the ideas of david parnas who published on the subject of program families they were facilitated by the chill language widely used by the telecommunications companies this language deploys the same modularity principles as the modula programming language family modularity is a crucial ingredient for implementing systems with a component based architecture being able to compose the products of components is an important mechanism in all product line architectures in the 1990s the product line ideas started to gain ground in other industries around 1995 the company experiences reached the academia and since then people in companies and academia have collaborated widely on this subject the esaps cafÉ and families projects manifest an institutionalized form of this collaboration

accelerating business and mission success with cloud computing key features a step by step guide that will practically guide you through implementing cloud computing services effectively and efficiently learn to choose the most ideal cloud service model and adopt appropriate cloud design considerations for your organization leverage cloud computing methodologies to successfully develop a cost effective cloud environment successfully book description cloud adoption is a core component of digital transformation scaling the it environment making it resilient and reducing costs are what organizations want architecting cloud computing solutions presents and explains critical cloud solution design considerations and technology decisions required to choose and deploy the right cloud service and deployment models based on your business and technology service requirements this book starts with the fundamentals of cloud computing and its architectural concepts it then walks you through cloud service models iaas paas and saas deployment models public private community and hybrid and implementation options enterprise msp and csp to explain and describe the key considerations and challenges organizations face during cloud migration later this book delves into how to leverage devops cloud native and serverless architectures in your cloud environment and presents industry best practices for scaling your cloud environment finally this book addresses in depth managing essential cloud technology service components such as data storage security controls and disaster recovery by the

end of this book you will have mastered all the design considerations and operational trades required to adopt cloud services no matter which cloud service provider you choose what you will learn manage changes in the digital transformation and cloud transition process design and build architectures that support specific business cases design modify and aggregate baseline cloud architectures familiarize yourself with cloud application security and cloud computing security threats design and architect small medium and large cloud computing solutions who this book is for if you are an it administrator cloud architect or a solution architect keen to benefit from cloud adoption for your organization then this book is for you small business owners managers or consultants will also find this book useful no prior knowledge of cloud computing is needed

this work provides a general description of ims ip multimedia subsystem including system concepts architecture and functionality and a detailed description of key functionalities

richly illustrated with over 350 photographs plans and engravings this fascinating and unusual book examines the importance of funerary architecture in the development of architectural style it reveals many hidden wonders and beauties throughout the world

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