Cloud Computing Architected Solution Design Handbook

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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

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 expertthis 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 mangers 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

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

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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

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architect robust solutions like a pro with real world insights and cutting edge design techniques

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every enterprise architect faces similar problems when designing and governing the enterprise architecture of a medium to large enterprise design patterns are a well established concept in software engineering used to define universally applicable solution schemes by applying this approach to enterprise architectures recurring problems in the design and implementation of enterprise architectures can be solved over all layers from the business layer to the application and data layer down to the technology layer inversini and perroud describe patterns at the level of enterprise architecture which they refer to as enterprise architecture patterns these patterns are motivated by recurring problems originating from both the business and the underlying application or from data and technology architectures of an enterprise such as identity and access management or integration needs the enterprise architecture patterns help in planning the technological and organizational landscape of an enterprise and its information technology and are easily embedded into frameworks such as togaf zachman or fea this book is aimed at enterprise architects software architects project leaders business consultants and everyone concerned with questions of it and enterprise architecture and provides them with a comprehensive catalogue of ready to use patterns as well as an extensive theoretical framework to define their own new patterns

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