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Introduction to Solution Architecture
Solution Architecture with .NET IT Architecture **Đ Essential Practice for IT Business Solutions Solutions Architect's Handbook - Second Edition Solutions Architect's Handbook Salesforce Architect's Handbook Beyond Software Architecture IT Architecture For Dummies**
Microsoft Power Platform Solution Architect's

Handbook Architecting Enterprise Solutions TOGAF™ Versie 9- Een Pocket Guide Solution Architecture - Simple Steps to Win, Insights and Opportunities for Maxing Out Success Salesforce B2C Solution Architect's Handbook Designing Security Architecture Solutions The Machine Learning Solutions Architect Handbook Software Architecture with

C# 9 and .NET 5 Solutions Architecture A Complete Guide - 2020 Edition Software Architecture with C# 10 and .NET 6 Solution Architecture Design A Complete Guide - 2020 Edition Solution Architecture Patterns for Enterprise Hardware Architecture and Software Solution for Business Application in Enterprise Network Enterprise Application

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Design Enterprise Architecture Function Software Architecture in Practice
Applied Architecture Patterns on the Microsoft Platform Second Edition
The Azure Cloud Native Architecture Mapbook
Microsoft Power Platform Enterprise Architecture Sustainable Architecture: A Solution to a Sustainable Sleep-out Design Brief (Volume 2).
Solution Architecture Complete Self-Assessment Guide
Information Assurance Architecture
Salesforce Anti-Patterns
Design scalable and high-performance

enterprise applications using the latest features of C# 9 and .NET 5
Key FeaturesGain fundamental and comprehensive software architecture knowledge and the skillset to create fully modular appsDesign high-performance software systems using the latest features of .NET 5 and C# 9Solve scalability problems in web apps using enterprise architecture patternsBook Description Software architecture is the practice of implementing structures and systems that streamline the software development process and

improve the quality of an app. This fully revised and expanded second edition, featuring the latest features of .NET 5 and C# 9, enables you to acquire the key skills, knowledge, and best practices required to become an effective software architect. This second edition features additional explanation of the principles of Software architecture, including new chapters on Azure Service Fabric, Kubernetes, and Blazor. It also includes more discussion on security, microservices, and DevOps, including GitHub deployments for the software development cycle.

You will begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non-functional requirements. Next, you will explore how to carefully choose a cloud solution for your infrastructure, along with the factors that will help you manage your app in a cloud-based environment. Finally, you will discover software design patterns and various software approaches that will allow you to solve common problems faced during development. By the end of this book, you will be able to build and deliver highly

scalable enterprise-ready apps that meet your organization's business requirements. What you will learn Use different techniques to overcome real-world architectural challenges and solve design consideration issues Apply architectural approaches such as layered architecture, service-oriented architecture (SOA), and microservices Leverage tools such as containers, Docker, Kubernetes, and Blazor to manage microservices effectively Get up to speed with Azure tools and features for delivering global solutions Program and maintain Azure

Functions using C# 9 and its latest features Understand when it is best to use test-driven development (TDD) as an approach for software development Write automated functional test cases Get the best of DevOps principles to enable CI/CD environments Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the .NET Stack. Basic familiarity with C# and .NET is required to get the most out of this book. Develop microservice-based enterprise applications with

expert guidance to avoid failures and technological debt with the help of real-world examples Key Features Implement the right microservices adoption strategy to transition from monoliths to microservices Explore real-world use cases that explain anti-patterns and alternative practices in microservices development Discover proven recommendations for avoiding architectural mistakes when designing microservices Book Description Microservices have been widely adopted for designing distributed enterprise apps

that are flexible, robust, and fine-grained into services that are independent of each other. There has been a paradigm shift where organizations are now either building new apps on microservices or transforming existing monolithic apps into microservices-based architecture. This book explores the importance of anti-patterns and the need to address flaws in them with alternative practices and patterns. You'll identify common mistakes caused by a lack of understanding when implementing microservices and cover topics such as organizational

readiness to adopt microservices, domain-driven design, and resiliency and scalability of microservices. The book further demonstrates the anti-patterns involved in re-platforming brownfield apps and designing distributed data architecture. You'll also focus on how to avoid communication and deployment pitfalls and understand cross-cutting concerns such as logging, monitoring, and security. Finally, you'll explore testing pitfalls and establish a framework to address isolation, autonomy, and standardization. By the end of this

book, you'll have understood critical mistakes to avoid while building microservices and the right practices to adopt early in the product life cycle to ensure the success of a microservices initiative. What you will learnDiscover the responsibilities of different individuals involved in a microservices initiativeAvoid the common mistakes in architecting microservices for scalability and resiliencyUnderstand the importance of domain-driven design when developing microservicesIdentify the common pitfalls involved in migrating monolithic applications to microservicesExplore communication

strategies, along with their potential drawbacks and alternativesDiscover the importance of adopting governance, security, and monitoringUnderstand the role of CI/CD and testingWho this book is for This practical microservices book is for software architects, solution architects, and developers involved in designing microservices architecture and its development, who want to gain insights into avoiding pitfalls and drawbacks in distributed applications, and save time and money that might otherwise get wasted if microservices designs fail.

Working knowledge of microservices is assumed to get the most out of this book. Gain expertise in solution architecture and master all aspects of Power Platform, from data and automation to analytics and security Key Features Become a full-fledged Power Platform expert and lead your solutions with conviction and clarity Adopt a consistent, systematic, and advanced approach to solution architecture Work on practical examples and exercises to develop expert-level skills and prepare for certification Book Description If you've been looking for a way to unlock

the potential of Microsoft Power Platform and take your career as a solution architect to the next level, then look no further—this practical guide covers it all. Microsoft Power Platform Solution Architect's Handbook will equip you with everything you need to build flexible and cost-effective end-to-end solutions. Its comprehensive coverage ranges from best practices surrounding fit-gap analysis, leading design processes, and navigating existing systems to application lifecycle management with Microsoft Azure DevOps, security compliance monitoring, and

third-party API integration. The book takes a hands-on approach by guiding you through a fictional case study throughout the book, allowing you to apply what you learn as you learn it. At the end of the handbook, you'll discover a set of mock tests for you to embed your progress and prepare for PL-600 Microsoft certification. Whether you want to learn how to work with Power Platform or want to take your skills from the intermediate to advanced level, this book will help you achieve that and ensure that you're able to add value to your organization as an expert

solution architect. What you will learn Cement the foundations of your applications using best practices Use proven design, build, and go-live strategies to ensure success Lead requirements gathering and analysis with confidence Secure even the most complex solutions and integrations Ensure compliance between the Microsoft ecosystem and your business Build resilient test and deployment strategies to optimize solutions Who this book is for This book is for solution architects, enterprise architects, technical

consultants, and business and system analysts who implement, optimize, and architect Power Platform and Dataverse solutions. It will also help anyone who needs a detailed playbook for architecting and delivering successful digital transformation projects that leverage Power Platform apps and the Microsoft business apps ecosystem. A solid understanding of Power Platform configuration and administration, Power Automate processes, Power Apps Portals, Canvas Apps, Dataverse Plugins, and Workflow Capabilities is expected. This text

aims to help all members of the development team make the correct nuts-and-bolts architecture decisions that ensure project success. Why have a book about the relation between requirements and software architecture? Understanding the relation between requirements and architecture is important because the requirements, be they explicit or implicit, represent the function, whereas the architecture determines the form. While changes to a set of requirements may impact on the realization of the architecture, choices made for an architectural

solution may impact on requirements, e.g., in terms of revising functional or non-functional requirements that cannot actually be met. Although research in both requirements engineering and software architecture is quite active, it is in their combination that understanding is most needed and actively sought. Presenting the current state of the art is the purpose of this book. The editors have divided the contributions into four parts: Part 1 “Theoretical Underpinnings and Reviews” addresses the issue of requirements change management in architectural design through traceability

and reasoning. Part 2 “Tools and Techniques” presents approaches, tools, and techniques for bridging the gap between software requirements and architecture. Part 3 “Industrial Case Studies” then reports industrial experiences, while part 4 on “Emerging Issues” details advanced topics such as synthesizing architecture from requirements or the role of middleware in architecting for non-functional requirements. The final chapter is a conclusions chapter identifying key contributions and outstanding areas for future research and improvement of practice. The book is targeted at

academic and industrial researchers in requirements engineering or software architecture. Graduate students specializing in these areas as well as advanced professionals in software development will also benefit from the results and experiences presented in this volume. Build highly secure and scalable machine learning platforms to support the fast-paced adoption of machine learning solutions Key Features Explore different ML tools and frameworks to solve large-scale machine learning challenges in the cloud Build an efficient data

science environment for data exploration, model building, and model training Learn how to implement bias detection, privacy, and explainability in ML model development Book Description When equipped with a highly scalable machine learning (ML) platform, organizations can quickly scale the delivery of ML products for faster business value realization. There is a huge demand for skilled ML solutions architects in different industries, and this handbook will help you master the design patterns, architectural considerations, and the latest technology insights you'll need to

become one. You'll start by understanding ML fundamentals and how ML can be applied to solve real-world business problems. Once you've explored a few leading problem-solving ML algorithms, this book will help you tackle data management and get the most out of ML libraries such as TensorFlow and PyTorch. Using open source technology such as Kubernetes/Kubeflow to build a data science environment and ML pipelines will be covered next, before moving on to building an enterprise ML architecture using Amazon Web Services (AWS). You'll also learn

about security and governance considerations, advanced ML engineering techniques, and how to apply bias detection, explainability, and privacy in ML model development. And finally, you'll get acquainted with AWS AI services and their applications in real-world use cases. By the end of this book, you'll be able to design and build an ML platform to support common use cases and architecture patterns like a true professional. What you will learn Apply ML methodologies to solve business problems Design a practical enterprise ML platform architecture Implement MLOps

for ML workflow automation Build an end-to-end data management architecture using AWS Train large-scale ML models and optimize model inference latency Create a business application using an AI service and a custom ML model Use AWS services to detect data and model bias and explain models Who this book is for This book is for data scientists, data engineers, cloud architects, and machine learning enthusiasts who want to become machine learning solutions architects. You'll need basic knowledge of the Python programming language, AWS, linear algebra, probability, and

networking concepts before you get started with this handbook. Starting out with Solution Architecture means being unsure about what to do, how to start and how to get the most out of it; preparing for success, and avoiding failure. There is enormous satisfaction in seeing the change succeed, overcoming the obstacles in the way to reap the rewards and benefits that using Solution Architecture brings. Don't embark on the change unprepared or it will be doomed to fail. But it's my guess that since you're reading this, the forces of change have already been set in motion, and there is

no going back. What you need is the resources, knowledge, and confidence required to overcome uncertainty and face Solution Architecture changes. The job can be accomplished by having a roadmap and experiences from previous Solution Architecture changes. This is where this book is your guide and roadmap. You will be able to relate to the experiences laid out in its resources covering all aspects of any Solution Architecture initiative. Use it, and its INCLUDED Working Documents for Leaders, to get a strong foundation. It will provide aid,

advice, blueprints, road maps, en templates when you need it most. The book reflects the reality that the fastest way to learn about Solution Architecture is from experiences, knowing about the ins and outs of employment and career developments, trends and popularity, relevant knowledge and patents AND the INCLUDED downloadable resources on Solution Architecture Blueprints, Templates and Presentations: Working Documents for Leaders. Whatever makes you decide to take on the change: growing business initiatives

or career development plans, you are ready for a Solution Architecture Change. The book and accompanying toolkit is your gateway and will fully support your commitment in moving forward and energize yourself and others. This solution manual for the second edition of Computer Architecture: A Quantitative Approach provides example solutions for many of the problems in the text. The manual covers all eight chapters of CA: AQA in addition to the two appendices that include exercises 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 Features Find out what are the essential personality traits and responsibilities of a solution architect Become well-versed with architecture principles and modern design patterns with hands-on examples Design modern web solutions and make the most of Azure DevOps to automate your development life cycle Book 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 learn Understand the role and core responsibilities of a .NET solution architect Study popular UML (Unified Modeling Language) diagrams for solution architecture Work with modern design patterns with the help of hands-on examples Become familiar with microservices and designing layers Discover how to design modern web solutions Automate your development life cycle with Azure DevOps Who 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 AWS Certified Solutions Architect - Associate examination is intended for individuals who perform a solutions architect role and have one or more years of hands-on experience designing available, cost-efficient, fault-tolerant, and scalable distributed systems on AWS. Preparing for

the AWS Certified Solutions Architect Associate Exam (AWS CSA) to become an AWS Certified Solutions Architect? Here we've brought 500+ AWS Solutions Architect Associate Exam Questions for you so that you can prepare well for the AWS Solution Architect Associate exam. This AWS Certified Solutions Architect - Associate exam practice test of AWS Web Services has been advanced to test your knowledge before taking the official exam. Unlike other online simulation practice tests, you get an eBook version easy to read & remember these questions. You can simply rely on these

500+ questions for successfully certifying this exam. Is there any reason to believe the opposite of my current belief? What to do with the results or outcomes of measurements? Are indirect costs charged to the solution architecture design program? Are decisions made in a timely manner? Which issues are too important to ignore? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a

process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions

to make Solution Architecture Design investments work better. This Solution Architecture Design All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Solution Architecture Design Self-Assessment. Featuring 938 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Solution Architecture Design improvements can be made. In using the questions you will be better able to: - diagnose Solution Architecture Design projects, initiatives, organizations,

businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Solution Architecture Design and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Solution Architecture Design Scorecard, you will develop a clear picture of which Solution Architecture Design areas need attention. Your purchase includes access details to the Solution Architecture Design self-assessment

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gives you your
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prioritized projects-
ready tool and
shows your
organization exactly
what to do next.
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quick edition of the
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Example pre-filled
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Checklists - Project
management

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comes with Lifetime
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Updated Books.
Lifetime Updates is
an industry-first
feature which
allows you to
receive verified self
assessment
updates, ensuring
you always have the
most accurate
information at your
fingertips.
Market_Desc: ·
Project Managers·
System Architects·
Software Engineers
Special Features: ·
System architects
ordinarily represent
at least 5% of a
Fortune 1000
worldwide technical

staff and every
large IT project at
every Fortune 1000
company has an
architecture and
systems design
leader who is the
audience for this
book. Author brings
expertise from a
renowned security
group at AT&T.·
Covers everything
from software
security basics to
cryptography for
system architects to
application and OS
security.· Includes
discussion of
security
technologies: SSL,
IPsec, secure DNS,
PKI-common
features. About The
Book: Computer
security is quickly
becoming the #1
need to have
solution for the
Fortune 1000. So
much has to be
done so fast that all
levels of technical

professionals in an organization are expected to get up to speed on security architecture. Understanding security architecture is vital to deploying successful security solutions in a Fortune 100 company. Without such a fortress of security solution interwoven with existing enterprise software, hackers can easily get in because the basic tenets of security and software integration in the existing infrastructure have not been followed. Gain a deeper understanding of how distributed systems work, as well as which applications and systems are used for specific

business domains or industries. This book provides a set of solution architecture patterns that were developed based on the author's experience building enterprise software systems for hundreds of different organizations across the globe. The architecture diagrams (patterns) and examples allow you to not only grasp the concepts, but to build working projects. Solution Architecture Patterns for Enterprise starts with an introduction to the concepts of enterprise software systems and solution architecture and later moves to

individual solution architecture patterns used in real-world enterprises. Subsequent sections cover various industry-specific solution architecture patterns that can be used to build domain-specific software systems. The book concludes with a view of what the future holds for solution architecture, including likely new developments in the field. This book will help enterprise software architects and engineers to design and implement real-world enterprise software systems using best practices and techniques adopted by organizations across the globe. It

provides software architecture blueprints to build domain-specific enterprise software systems. If you are working on any digital transformation project or initiative, you will find this book useful, as it provides quick reference on architecture and implementation to get started with your work. What You Will Learn Understand the key elements of enterprise software systems and how to design and implement them Master different approaches to build real-world software applications Build domain specific enterprise software systems Use open-source tools to build enterprise

software systems Who This Book Is For Software Developers, software architect, solution architects, and enterprise architects. Do you have other requirements on the data sharing solution? Is architectural knowledge embedded in your processes? How do you create an architecture? Is the method usable in practice to determine the value of enterprise architecture-based business transformation? How is the business value of IT related to the value of enterprise and solutions architecture? This instant Solutions Architecture self-assessment will

make you the accepted Solutions Architecture domain assessor by revealing just what you need to know to be fluent and ready for any Solutions Architecture challenge. How do I reduce the effort in the Solutions Architecture work to be done to get problems solved? How can I ensure that plans of action include every Solutions Architecture task and that every Solutions Architecture outcome is in place? How will I save time investigating strategic and tactical options and ensuring Solutions Architecture costs are low? How can I deliver tailored Solutions

Architecture advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Solutions Architecture essentials are covered, from every angle: the Solutions Architecture self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Solutions Architecture outcomes are achieved. Contains extensive criteria grounded in past and current successful projects

and activities by experienced Solutions Architecture practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Solutions Architecture are maximized with professional results. Your purchase includes access details to the Solutions Architecture self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access

details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Solutions Architecture Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT

UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. 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 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 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 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 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, 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 look to IT Architecture For Dummies for guidance in this field. Take a deep dive into the architectural approach, best practices, and key considerations needed to comprehend, evaluate, and design an efficient, scalable, and sustainable Salesforce-based solution. This book takes a comprehensive look at the seven architectural domains that must be considered when architecting a Salesforce-based solution and equips you to develop the

artifacts needed for an end-to-end enterprise architecture blueprint for Salesforce implementation and DevOps. This must-have handbook helps Salesforce professionals implement and manage Salesforce in their organization. You will learn Salesforce architecture: solution architecture, data architecture, security architecture, integration architecture, identity and access management architecture, and strategies that can be used for Salesforce-based mobile applications. In addition to the main architecture

concepts, the book also offers industry best practices and the recommended framework for approaching, managing, delivering, and continuously improving a Salesforce solution using its Salesforce Development & Deployment Lifecycle. What You Will Learn Get a detailed overview of the Salesforce multi-tenant, metadata-driven architectural framework and the under-the-hood technology stack that supports Salesforce Know the seven architecture domains, their intricacies, and the considerations needed within each when designing a Salesforce solution

Have an architectural mindset and the artifacts needed to architect an end-to-end enterprise-level implementation of Salesforce Be familiar with the most common Salesforce products, licenses, AppExchange products, and the key considerations of using out-of-the-box declarative capabilities vs custom programmatic capabilities of Salesforce Understand data architecture design considerations that include data modeling in Salesforce, identifying and mitigating large data volume concerns, and the key considerations for data migration

and data archiving strategies Understand security architecture considerations related to securing data within Salesforce and the various approaches to allow or restrict sharing and visibility from within Salesforce Understand integration architecture considerations that provide an overview of the integration patterns and the integrations solutions that can be used with Salesforce to connect Salesforce with a remote system hosted on-premises, on the cloud, or by third-party solution providers Understand identity and access

management architectural considerations across the 9 stages of an identity and access management lifecycle Be aware of the strategies available to design mobile solutions with Salesforce and the options available for Salesforce mobile architecture Employ the principles of the DevOps & Development Lifecycle needed for an ideal state Salesforce implementation Who This Book Is For Professionals interested in implementing, optimizing, and architecting Salesforce solutions enterprise-wide; Salesforce implementation (SI) partners needing a

detailed playbook for architecting and delivering successful Salesforce solutions; Salesforce admins, developers, and architects looking for a one-stop educational resource to mastering the Salesforce architect domains or those pursuing the Salesforce architecture domain certification exams, including the Salesforce Certified Technical Architect (CTA) board exam This book provides a method to plan, develop, validate, or evolve the design of an enterprise architecture function so that it fully meets the organization's needs. The reader

will benefit from this book in two ways. First, it provides a structured overview and orientation to the subject of architecture from an architecture function perspective. Second, it guides through the process of planning, building, and operating your own architecture organization based on a generic architecture function blueprint presented in the form of a pattern language offering a structured means for navigating, contextualizing, combining, and composing the architecture function patterns. The book is structured in six chapters. Chapter 1

“Introduction” explains the starting position and objectives of the book and introduces key concepts that will be explained further in subsequent chapters. Chapter 2 “Architecture Function Pattern Language” introduces the concepts of pattern, pattern catalogue, pattern topology, and ontology and explains how these concepts are combined to form a pattern language for planning, designing, and operating an architecture function. Next, Chapter 3 “Architecture Function - Context” introduces concepts that are crucial for understanding the

challenges that an architecture function faces and presents a generic schema for the business organizations and value chain.

Chapter 4 “Architecture Function - Challenge” looks at an architecture function from a black box perspective and outlines the expectations and requirements that companies place on architecture organizations. It discusses the building blocks of an architecture function, the services it provides along the enterprise value chain, and the quality attributes that enterprises expect from their functions. Chapter

5 “Architecture Function - Constitution” then shifts from a black-box perspective to a white-box perspective and outlines the generic design of an architecture function in order to realize functional and quality-related requirements. Chapter 6 “Pattern Catalogue” eventually introduces the pattern catalogue with a total of 48 architecture function patterns. These patterns suggest designs for collaboration between the architecture function and enterprise organizations, for the elaboration and development of enterprise services along the

enterprise value chain, or for aligning architecture governance with enterprise governance. The book is intended for a broad readership, including enterprise, domain, and solution architects, lecturers and students, and anyone else interested in understanding the value proposition, responsibilities, outcomes, methods, and practices of architecture functions. It introduces the basic concepts and theories needed to understand the pattern language presented and the patterns it summarizes. SYNOPSIS: This book is about Design and Visual

Communication for secondary school students and teachers. It is a very useful resource for primary, secondary school teachers and tertiary students, who are interested in all aspects of sustainable architecture. Designers and architects could also find it an interesting read. The software Google Sketch-up used, discussed, and illustrated in this book, is very user-friendly. The computer-aided drawing program – SketchUpMake – is freeware, which can be downloaded from the Internet. The computer program is very easy to use; very young kids, like primary school

students, and secondary school students, can use it. It is a great design program and many tertiary students, as well as professional architects and designers, make use of it. The advantage is that objects and buildings can be designed in just minutes, for example, concepts and ideas. Included in the sleep-out brief is general research (inspiration board, design eras & influential architects), and design activities that include possible solutions to a sustainable architectural design brief. Extensive content is included on freehand sketches, SketchUp computer-aided

drawings, elevations, site plans, diagrams, screenshots, biomimetics, assessments, and more. The assessment of the chosen building site is presented, including weather and climatic factors. Additionally, the author has included links to his YouTube videos (model/movement). These videos were specifically included to assist the solution to sustainable architectural briefs. Links to published academic work by the author, and much more, are also included. See Five House Publishing for more details. Exemplars of secondary school students work

(sixteen-year-olds) from a New Zealand Secondary School are included (Design and Visual Communication).

KEYWORDS:

Design and Visual Communication (DVC), Sustainable Architecture, 16-year-olds, animal architecture, armadillo and onion inspired, ask nature how, biomimetics, clerestory, climate, collecting rainwater, computer-aided software, concrete, creativity, design eras, elevations, freehand sketching, generating design ideas, green roof, harvesting energy from the sun, harvesting energy from the wind, heatsink, ideation, illustrate sustainable function, influential

designers, innovation, location, model, modernism, modernist architects, movement, New Zealand, orientation, passive solar, passive solar design, passive solar panel, passive ventilation, photovoltaic panel, primary school, retrofitting, secondary school, sectional views, Shadows and Shading, shipping container sleep-out, site assessment, site plan, Sketch-Up, sleep-out, steel reinforcing, sustainable architecture, sustainable features & functions, the living classroom, thermal mass, trombe walls, weather, climate. Presented in a

scenario-driven tutorial way, we lead you through fictitious example problems and present you with the best solutions. This book is intended for architects, developers, and managers who need to improve their knowledge of the Microsoft application platform. This book will appeal to anyone, especially consultants, who want to get up to speed on selecting the most appropriate platform for a particular problem. A good understanding of the general Windows platform and development technologies would be helpful. Dé pocket guide over

TOGAF versie 9
Met uitgebreide
begrippenlijst
Onmisbaar voor wie
in het Nederlands
over TOGAF wil
kunnen praten
Nederlandse
overheid gebruikt
TOGAF als
standaard, deze
pocket is een
uitstekende
introduction This
book is about IT
architecture set
against the
background of the
practical insights
gained at HP
(Hewlett-Packard)
since 1986 and
formalized in the
HP methodology for
IT Strategy and
Architecture (ITSA).
The important
message is that
architecture is used
to solve problems
or exploit
opportunities and is
not used for the
sake of

architecture. Core
to this is the
concept of a
seamless chain of
justification that
unites stakeholders
in defining,
reinforcing, and
supporting the
single best fitting IT
business solution.
This book teaches
the IT architecture
practitioner how to
align the different
views and interests
of these
stakeholders into
coherent IT
architecture
artifacts by
permeating the
business,
functional,
technical, and
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perspectives.
Improve your Azure
architecture
practice and set out
on a cloud and
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journey with this
Azure cloud native

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to tackle any
challengeUnderstan
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help of practical
use casesBook
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offers a wide range
of services that
enable a million
ways to architect
your solutions.
Complete with
original maps and
expert analysis, this
book will help you
to explore Azure
and choose the best
solutions for your
unique
requirements.
Starting with the
key aspects of
architecture, this
book shows you
how to map

different architectural perspectives and covers a variety of use cases for each architectural discipline. You'll get acquainted with the basic cloud vocabulary and learn which strategic aspects to consider for a successful cloud journey. As you advance through the chapters, you'll understand technical considerations from the perspective of a solutions architect. You'll then explore infrastructure aspects, such as network, disaster recovery, and high availability, and leverage Infrastructure as Code (IaC) through ARM templates, Bicep, and Terraform. The

book also guides you through cloud design patterns, distributed architecture, and ecosystem solutions, such as Dapr, from an application architect's perspective. You'll work with both traditional (ETL and OLAP) and modern data practices (big data and advanced analytics) in the cloud and finally get to grips with cloud native security. By the end of this book, you'll have picked up best practices and more rounded knowledge of the different architectural perspectives. What you will learn Gain overarching architectural knowledge of the Microsoft Azure cloud

platformExplore the possibilities of building a full Azure solution by considering different architectural perspectivesImplement best practices for architecting and deploying Azure infrastructureReview different patterns for building a distributed application with ecosystem frameworks and solutionsGet to grips with cloud-native concepts using containerized workloadsWork with AKS (Azure Kubernetes Service) and use it with service mesh technologies to design a microservices hosting platformWho this book is for This book is for aspiring

Azure Architects or anyone who specializes in security, infrastructure, data, and application architecture. If you are a developer or infrastructure engineer looking to enhance your Azure knowledge, you'll find this book useful. Now that information has become the lifeblood of your organization, you must be especially vigilant about assuring it. The hacker, spy, or cyber-thief of today can breach any barrier if it remains unchanged long enough or has even the tiniest leak. In *Information Assurance Architecture*, Keith D. Willett draws on his over 25 years of technical, security,

and business experience to provide a framework for organizations to align information assurance with the enterprise and their overall mission. The *Tools to Protect Your Secrets from Exposure* This work provides the security industry with the know-how to create a formal information assurance architecture that complements an enterprise architecture, systems engineering, and the enterprise life cycle management (ELCM). *Information Assurance Architecture* consists of a framework, a process, and many supporting tools,

templates and methodologies. The framework provides a reference model for the consideration of security in many contexts and from various perspectives; the process provides direction on how to apply that framework. Mr. Willett teaches readers how to identify and use the right tools for the right job. Furthermore, he demonstrates a disciplined approach in thinking about, planning, implementing and managing security, emphasizing that solid solutions can be made impenetrable when they are seamlessly integrated with the whole of an

enterprise.
Understand the Enterprise Context
This book covers many information assurance subjects, including disaster recovery and firewalls. The objective is to present security services and security mechanisms in the context of information assurance architecture, and in an enterprise context of managing business risk. Anyone who utilizes the concepts taught in these pages will find them to be a valuable weapon in the arsenal of information protection. 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. What does the goal look like? Is there a metadata strategy? How will architectures change? How can you optimize your application and database to run in more elastic fashion? Can you find correlations that customer satisfaction is correlated to the expectation of the customer? This powerful Solution

Architecture self-assessment will make you the credible Solution Architecture domain standout by revealing just what you need to know to be fluent and ready for any Solution Architecture challenge. How do I reduce the effort in the Solution Architecture work to be done to get problems solved? How can I ensure that plans of action include every Solution Architecture task and that every Solution Architecture outcome is in place? How will I save time investigating strategic and tactical options and ensuring Solution Architecture costs are low? How can I

deliver tailored Solution Architecture advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Solution Architecture essentials are covered, from every angle: the Solution Architecture self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Solution Architecture outcomes are achieved. Contains extensive criteria grounded in past

and current successful projects and activities by experienced Solution Architecture practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Solution Architecture are maximized with professional results. Your purchase includes access details to the Solution Architecture self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next.

Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Solution Architecture Checklists - Project management checklists and templates to assist with implementation INCLUDES

LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. Is the impact that Solution Architecture has shown? Is the Solution Architecture scope manageable? What other areas of the organization might benefit from the Solution Architecture team's improvements, knowledge, and learning? What are

the expected benefits of Solution Architecture to the business? How do we go about Comparing Solution Architecture approaches/solutions? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a

complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' For more than twenty years, *The Art of Service's Self-Assessments* empower people who can do just that - whether their title is marketer, entrepreneur, manager, salesperson, consultant, business process manager, executive assistant, IT Manager, CxO etc... - they are the people who rule the future. They are people who watch the process as it happens, and ask

the right questions to make the process work better. This book is for managers, advisors, consultants, specialists, professionals and anyone interested in Solution Architecture assessment. Featuring 371 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Solution Architecture improvements can be made. In using the questions you will be better able to: - diagnose Solution Architecture projects, initiatives, organizations, businesses and processes using

accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Solution Architecture and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Solution Architecture Index, you will develop a clear picture of which Solution Architecture areas need attention. Included with your purchase of the book is the Solution Architecture Self-Assessment downloadable resource, containing all questions and Self-

Assessment areas of this book. This enables ease of (re-)use and enables you to import the questions in your preferred management tool. Access instructions can be found in the book. You are free to use the Self-Assessment contents in your presentations and materials for customers without asking us - we are here to help. This Self-Assessment has been approved by The Art of Service as part of a lifelong learning and Self-Assessment program and as a component of maintenance of certification. Optional other Self-Assessments are available. For more information, visit

<http://theartofservice.com> Defining the various types of IT architecture in the industry, this one-of-a-kind resource highlights the rewards of becoming an architect and explores the details of the deliverables, project structure, and how to approach their creation. -- A practical, nuts-and-bolts guide to architectural solutions that describes step-by-step how to design robustness and flexibility into an Internet-based system Based on real-world problems and systems, and illustrated with a running case study Enables software architects and project managers to ensure that

nonfunctional requirements are met so that the system won't fall over, that it can be maintained and upgraded without being switched off, and that it can deal with security, scalability, and performance demands Platform and vendor independence will empower architects to challenge product-dictated limitations Avoid implementation failures and technical debt by mitigating anti-patterns in your Salesforce enterprise solutions using expert guidance and proven recommendations Purchase of the print or Kindle book includes a free eBook PDF Key

Features Build exemplary Salesforce architectures by studying anti-patterns that lead to failing systems Demonstrate deep architectural principles that you can apply in your Salesforce projects Identify common problems in Salesforce architectures and apply better architectural solutions Book Description Salesforce Anti-Patterns teaches you to spot errors in Salesforce patterns that may seem like a good idea at first but end up costing you dearly. This book will enable Salesforce developers and architects to understand how

ingenious Salesforce architectures can be created by studying anti-patterns and solutions to problems that can later lead to serious implementation issues. While there are several books on the market that start with the question, "How do I create great Salesforce architecture?" and proceed to a solution from there, this book instead starts by asking, "What tends to go wrong with Salesforce architectures?" and proceeds to a solution from there. In this book, you'll find out how to identify and mitigate anti-patterns in the technical domains

of system architecture, data architecture, and security architecture, along with anti-patterns in the functional domain of solution architecture as well as for integration architecture. You'll also learn about common anti-patterns affecting your Salesforce development process and governance and, finally, how to spot common problems in how architects communicate their solutions. By the end of this Salesforce book, you'll have gained the confidence to architect and communicate solutions on the Salesforce platform while dodging common mistakes. What you will learn

Create a balanced system architecture by identifying common mistakes around on- and off-platform functionality and interfaces Avoid security problems that arise from anti-patterns on the Salesforce platform Spot common data architecture issues and discover intuitive ways to address them Avoid the dual traps of over- and under-customization in your solution architecture Explore common errors made in deployment setups, test strategy, and architecture governance Understand why bad communication patterns are so overlooked in architecture Who this book is for This

book is for Salesforce architects, aspiring architects, developers, consultants, and decision makers who want to start making the right architectural choices or prepare for their journey to CTA. This book helps you gain a professional understanding of Salesforce and its building blocks. It is not code-centric, so you will benefit from both functional and technical experience, but a basic level of platform understanding is required. Is the impact that Solution Architecture has shown? Is the Solution Architecture scope

manageable? What other areas of the organization might benefit from the Solution Architecture team's improvements, knowledge, and learning? What are the expected benefits of Solution Architecture to the business? How do we go about Comparing Solution Architecture approaches/solutions? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a

process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' For more than twenty years, The Art of Service's Self-Assessments empower people who can do just that - whether their title is marketer, entrepreneur, manager, salesperson, consultant, business process

manager, executive assistant, IT Manager, CxO etc... - they are the people who rule the future. They are people who watch the process as it happens, and ask the right questions to make the process work better. This book is for managers, advisors, consultants, specialists, professionals and anyone interested in Solution Architecture assessment. Featuring 371 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Solution Architecture improvements can be made. In using

the questions you will be better able to: - diagnose Solution Architecture projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Solution Architecture and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Solution Architecture Index, you will develop a clear picture of which Solution Architecture areas need attention.

Included with your purchase of the book is the Solution Architecture Self-Assessment downloadable resource, containing all questions and Self-Assessment areas of this book. This enables ease of (re-)use and enables you to import the questions in your preferred management tool. Access instructions can be found in the book. You are free to use the Self-Assessment contents in your presentations and materials for customers without asking us - we are here to help. This Self-Assessment has been approved by The Art of Service as part of a lifelong learning and Self-

Assessment program and as a component of maintenance of certification. Optional other Self-Assessments are available. For more information, visit <http://theartofservice.com> From fundamentals and design patterns to the different strategies for creating secure and reliable architectures in AWS cloud, learn everything you need to become a successful solutions architectKey Features* Transform business requirements into end-to-end technical architectures with this practical guide* Assess and overcome the various challenges

while updating or modernizing legacy applications* Learn how to future-proof your architecture with IoT, machine learning, and quantum computingBook DescriptionSolution s Architect's Handbook, Second Edition, takes a hands-on approach to helping you become a solutions architect. You will learn how to create robust, scalable, and fault-tolerant solutions and next-generation architecture designs in a cloud environment. This will help you build effective product strategies for your business and implement them from start to finish.The new edition incorporates new 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.This book 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 book, you'll have learned techniques that enable you 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 appropriate strategies to secure your architectures and increase their availability* Modernize legacy applications with the help of cloud integration* Understand big data processing,

machine learning, IoT, and quantum computing, and how they 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 working in the information technology industry who aspire to become solutions architect professionals. It will also be useful for existing solutions architects who want to broaden their skillset and learn about new

technologies. A good understanding of the real-world software development process and general programming experience with any language will be useful. This book caters to all IT administrators, developers, and IT-specific students who want to build sound proficiency in the IT Solution Architect field. -- This book enables you to design tailor-made enterprise solutions using the latest models, methodologies, and patterns for your projects. It harnesses the capabilities of the Power Platform, Azure, and Dynamics 365 to create robust solutions. In this new edition, you

can work with the latest technologies such as Dataverse and Power Portals to take your solutions to the next level. Purchase of the print or Kindle book includes a free eBook in PDF format. Expert insights "This book provides a solid understanding of how Microsoft 365 and Power Platform work together and offers detailed information on the architecture. It blends a theoretical approach with real-world scenarios to bring the theories to life and demonstrates how architecture operates in practice." —Mary Angiela Cerbolles, Dual Microsoft MVP, productivity analyst "What I

really like about this book is that it is well structured and easy to follow, using practical examples to illustrate key concepts throughout. I highly recommend it!"

—Thomas Rice, 16x Microsoft Certified Solutions Architect

Key Features

Design solution architecture utilizing the full Microsoft ecosystem, now with diagrams to explain the Microsoft cloud structure

Develop solutions with a wide range of customization tools and techniques, updated for the best practices regarding APIs and plug-ins

Optimize solution architecture using the latest ALM best

practices and integration models, following example enterprise requirements

About the book This book is for enterprise architects and decision makers who design solutions for complex business requirements. It teaches you how to use architectural best practices and methodologies to optimize an enterprise-grade solution. You'll gain an understanding of the tools available in the Power Platform suite and how to integrate them seamlessly with various Microsoft 365 and Azure components to create a tailor-made solution.

Progressing through the book, you'll discover how

to address application lifecycle management, security, extensibility, and data migration. This includes Power BI, which often requires a separate approach to the rest of the Power Platform. This book provides you with practical, essential, and concise information. It follows a complete, end-to-end example in every chapter, with diagrams that illustrate the intricacies of Microsoft cloud structure. It has been created by an experienced enterprise architect who actively creates solutions using Microsoft technology. By the end of this book, you'll have the strategic

perspective of an enterprise architect to make accurate architectural decisions for your complex Power Platform projects. Who this book is for If you're an enterprise architect or technical decision maker looking to design complex solutions using Microsoft Power Platform, this is the book for you. Familiarity with Microsoft Power Platform and Azure services will be required to follow along. Architect and design highly scalable, robust, clean and highly performant applications in .NET Core About This Book Incorporate architectural soft-skills such as

DevOps and Agile methodologies to enhance program-level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced .NET developers who are aspiring to become architects of enterprise-grade applications, as well as software architects who would like to leverage .NET to create effective

blueprints of applications. What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools, application insights, and their usage to monitor performance, testability, and optimization tools in an enterprise Explore various authentication models such as social media-based authentication, 2FA and OpenID Connect, learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain

knowledge about the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies. In Detail If you want to design and develop enterprise applications using .NET Core as the development framework and learn about industry-wide best practices and guidelines, then this book is for you. The book starts with a brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types of

patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework

and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence. Style and approach Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect. The ultimate handbook for new and seasoned

Salesforce B2C Solution Architects who want to design seamless B2C solutions across the Salesforce Customer 360 ecosystem - including B2C Commerce, Service Cloud, and Marketing Cloud Key Features Give your customers a frictionless experience by creating a unified view of all their interactions Get your architectural design right the first time and avoid costly reworks Prepare for the B2C Solution Architect exam and Salesforce certification with practical scenarios following Salesforce best practices Book Description There's a huge demand on the market for

Salesforce professionals who can create a single view of the customer across the Salesforce Customer 360 platform and leverage data into actionable insights. With Salesforce B2C Solution Architect's Handbook, you'll gain a deeper understanding of the integration options and products that help you deliver value for organizations. While this book will help you prepare for the B2C Solution Architect exam, its true value lies in setting you up for success afterwards. The first few chapters will help you develop a solid understanding of the capabilities of

each component in the Customer 360 ecosystem, their data models, and governance. As you progress, you'll explore the role of a B2C solution architect in planning critical requirements and implementation sequences to avoid costly reworks and unnecessary delays. You'll learn about the available options for integrating products with the Salesforce ecosystem and demonstrate best practices for data modeling across Salesforce products and beyond. Once you've mastered the core knowledge, you'll also learn about tools, techniques, and certification scenarios in

preparation for the B2C Solution Architect exam. By the end of this book, you'll have the skills to design scalable, secure, and future-proof solutions supporting critical business demands. What you will learn

Explore key Customer 360 products and their integration options

Choose the optimum integration architecture to unify data and experiences

Architect a single view of the customer to support service, marketing, and commerce

Plan for critical requirements, design decisions, and implementation sequences to avoid sub-optimal solutions

Integrate

Customer 360 solutions into a single-source-of-truth solution such as a master data model

Support business needs that require functionality from more than one component by orchestrating data and user flows

Who this book is for

This book is for professionals in high-level job roles that heavily rely on Salesforce proficiency. It's primarily written for B2C commerce architects, application architects, integration architects, as well as system architects, enterprise architects, Salesforce architects, and CTO teams looking to

benefit from a deeper understanding of this platform. Before you get started, you'll need a solid understanding of data integration, APIs, and connected systems, along with knowledge of the fundamentals of business-to-consumer (B2C) customer experiences.

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- 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 Design scalable and high-performance enterprise applications using the latest features of C# 10 and .NET 6 Key FeaturesGain comprehensive software architecture knowledge and the skillset to create fully modular appsSolve scalability problems in web apps using enterprise architecture patternsMaster new developments in front-end architecture and the application of AI for software architectsBook Description Software architecture is the practice of implementing structures and systems that

streamline the software development process and improve the quality of an app. This fully revised and expanded third edition, featuring the latest features of .NET 6 and C# 10, enables you to acquire the key skills, knowledge, and best practices required to become an effective software architect. Software Architecture with C# 10 and .NET 6, Third Edition features new chapters that describe the importance of the software architect, microservices with ASP.NET Core, and analyzing the architectural aspects of the front-end in the applications,

including the new approach of .NET MAUI. It also includes a new chapter focused on providing a short introduction to artificial intelligence and machine learning using ML.NET, and updated chapters on Azure Kubernetes Service, EF Core, and Blazor. You will begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non-functional requirements. Next, you will explore how to choose a cloud solution for your infrastructure, taking into account the factors that will help you manage a cloud-based app

successfully. Finally, you will analyze and implement software design patterns that will allow you to solve common development problems. By the end of this book, you will be able to build and deliver highly scalable enterprise-ready apps that meet your business requirements. What you will learn Use proven techniques to overcome real-world architectural challenges Apply architectural approaches such as layered architecture Leverage tools such as containers to manage microservices effectively Get up to speed with Azure features for delivering global

solutions Program and maintain Azure Functions using C# 10 Understand when it is best to use test-driven development (TDD) Implement microservices with ASP.NET Core in modern architectures Enrich your application with Artificial Intelligence Get the best of DevOps principles to enable CI/CD environments Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the .NET Stack. Basic familiarity with C# and .NET is required to get the most out of this

book. The award-winning and highly influential *Software Architecture in Practice*, Third Edition, has been substantially revised to reflect the latest developments in the field. In a real-world setting, the book once again introduces the concepts and best practices of software architecture—how a software system is structured and how that system’s elements are meant to interact. Distinct from the details of implementation, algorithm, and data representation, an architecture holds the key to achieving system quality, is a reusable asset that can be applied to subsequent systems, and is

crucial to a software organization's business strategy. The authors have structured this edition around the concept of architecture influence cycles. Each cycle shows how architecture influences, and is influenced by, a particular context in which architecture plays a critical role. Contexts include technical environment, the life cycle of a project, an organization's business profile, and the architect's professional practices. The authors also have greatly expanded their treatment of quality attributes, which remain central to their

architecture philosophy—with an entire chapter devoted to each attribute—and broadened their treatment of architectural patterns. If you design, develop, or manage large software systems (or plan to do so), you will find this book to be a valuable resource for getting up to speed on the state of the art. Totally new material covers Contexts of software architecture: technical, project, business, and professional Architecture competence: what this means both for individuals and organizations The origins of business goals and how this affects architecture

Architecturally significant requirements, and how to determine them Architecture in the life cycle, including generate-and-test as a design philosophy; architecture conformance during implementation; architecture and testing; and architecture and agile development Architecture and current technologies, such as the cloud, social networks, and end-user devices From fundamentals and design patterns to the different strategies for creating secure and reliable architectures in AWS cloud, learn everything you need to become a successful solutions architect Key

Features Create solutions and transform business requirements into technical architecture with this practical guide Understand various challenges that you might come across while refactoring or modernizing legacy applications Delve into security automation, DevOps, and validation of solution architecture Book Description Becoming a solutions architect gives you the flexibility to work with cutting-edge technologies and define product strategies. This handbook takes you through the essential concepts, design principles and patterns, architectural

considerations, and all the latest technology that you need to know to become a successful solutions architect. This book starts with a quick introduction to the fundamentals of solution architecture design principles and attributes that will assist you in understanding how solution architecture benefits software projects across enterprises. You'll learn what a cloud migration and application modernization framework looks like, and will use microservices, event-driven, cache-based, and serverless patterns to design robust architectures. You'll then explore the

main pillars of architecture design, including performance, scalability, cost optimization, security, operational excellence, and DevOps. Additionally, you'll also learn advanced concepts relating to big data, machine learning, and the Internet of Things (IoT). Finally, you'll get to grips with the documentation of architecture design and the soft skills that are necessary to become a better solutions architect. By the end of this book, you'll have learned techniques to create an efficient architecture design that meets your business requirements. What

you will learn

Explore the various roles of a solutions architect and their involvement in the enterprise landscape Approach big data processing, machine learning, and IoT from an architect's perspective and understand how they fit into modern architecture Discover different solution architecture patterns such as event-driven and microservice patterns Find ways to keep yourself updated with new technologies and enhance your skills Modernize legacy applications with the help of cloud integration Get to grips with choosing an appropriate strategy to reduce cost Who this book

is for This book is for software developers, system engineers, DevOps engineers, architects, and team leaders working in the information technology industry who aspire to become solutions architect professionals. A good understanding of the software development process and general programming experience with any language will be useful.

- [Introduction To Solution Architecture](#)
- [Solution Architecture With NET](#)
- [Solutions Architects Handbook Second Edition](#)

- [Solutions Architects Handbook](#)
- [Salesforce Architects Handbook](#)
- [Beyond Software Architecture](#)
- [IT Architecture For Dummies](#)
- [Microsoft Power Platform Solution Architects Handbook](#)
- [Architecting Enterprise Solutions](#)
- [Solution Architecture Simple Steps To Win Insights And Opportunities For Maxing Out Success](#)
- [Salesforce B2C Solution Architects Handbook](#)
- [Designing](#)

- [Security Architecture Solutions](#)
- [The Machine Learning Solutions Architect Handbook](#)
 - [Software Architecture With C 9 And NET 5](#)
 - [Solutions Architecture A Complete Guide 2020 Edition](#)
 - [Software Architecture With C 10 And NET 6](#)
 - [Solution Architecture Design A Complete Guide 2020 Edition](#)
 - [Solution Architecture Patterns For Enterprise](#)
 - [Hardware Architecture And Software](#)

- [Solution For Business Application In Enterprise Network](#)
- [Enterprise Application Architecture With NET Core](#)
 - [Enterprise Solution Architecture Strategy Guide](#)
 - [How To Become An It Architect](#)
 - [Solution Architecture A Complete Guide 2020 Edition](#)
 - [Enterprise Architecture Patterns](#)
 - [Relating Software Requirements And Architectures](#)
 - [Solution Architecture Complete Self](#)

- [Assessment Guide](#)
- [AWS Solutions Architect Exam Practice Questions And Dumps With Explanations Exam SAA C01](#)
 - [Solutions To Selected Exercises In Computer Architecture](#)
 - [Embracing Microservices Design](#)
 - [Enterprise Architecture Function](#)
 - [Software Architecture In Practice](#)
 - [Applied Architecture Patterns On The Microsoft Platform Second Edition](#)

- [The Azure Cloud Native Architecture Mapbook](#)
- [Microsoft Power Platform Enterprise Architecture](#)
- [Sustainable Architecture A Solution To A Sustainable Sleep out Design Brief Volume 2](#)
- [Solution Architecture Complete Self Assessment Guide](#)
- [Information Assurance Architecture](#)
- [Salesforce Anti Patterns](#)