

Business Applications Architect

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Patterns of Enterprise Application Architecture Martin Fowler, 2012-03-09 The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns of Enterprise Application Architecture is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include · Dividing an enterprise application into layers · The major approaches to organizing business logic · An in-depth treatment of mapping between objects and relational databases · Using Model-View-Controller to organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces

Practical Model-Driven Enterprise Architecture Mudar Bahri, Joe Williams, 2022-05-13 Bridge the gap between theory and reality by implementing real-world examples using the Sparx EA tool and ArchiMate® 3.1 specification to develop sophisticated enterprise architecture models serving every unit in your organization Key Features • Discover the various artifacts that enterprise architects need to develop for stakeholders to make sound decisions • Build a functional enterprise architecture repository that is rich in information, references, and metamodels • Learn how to use Sparx Enterprise Architect from scratch Book Description Most organizations face challenges in defining and achieving evolved enterprise architecture practices, which can be a very lengthy process even if implemented correctly. Developers, for example, can build better solutions only if they receive the necessary design information from architects, and decision-makers can make appropriate changes within the organization only if they know the implications of doing so. The book starts by addressing the problems faced by enterprise architecture practitioners and provides solutions based on an agile approach to enterprise architecture, using ArchiMate® 3.1 as an industry standard and Sparx EA as the modeling tool. You'll learn with the help of a fictional organization that has three business units, each expecting something different from you as the enterprise architect. You'll build the practice, satisfy the different requirements of each business unit, and share the knowledge with others so they can follow your steps. Toward the end, you'll learn how to put the diagrams and the content that you have developed into documents, presentations, and web pages that can be published and shared with any stakeholder. By the end of this book, you'll be able to build a functional enterprise architecture practice that supports every part of your organization. You'll also have developed the necessary skills to populate your enterprise architecture repository with references and artifacts. What you will learn • Discover how enterprise architects can contribute to projects and departments within organizations • Use Sparx Enterprise Architect to build a rich architecture repository • Learn about the ArchiMate® 3.1 specification as you apply it in real-world projects • Use the focused metamodel technique to build the information necessary for maintaining your repository's consistency and accuracy • Understand the importance of keeping architectural artifacts simple yet eye-catching • Define an operational model that fits your initial needs and expands as required Who this book is for This book is for enterprise architects at all architectural layers and practices of any maturity level. Many of the artifacts suggested in this book are inspired by The Open Group Architecture Framework (TOGAF®); however, familiarity with TOGAF® is not required. Whether you work within the business, applications, data, or technology layers, this book covers examples that apply to your work. Although not mandatory, experience modeling in Sparx Systems Enterprise Architect using any modeling language will be helpful. No prior knowledge of ArchiMate® is required to get started with this book.

Salesforce Lightning Platform Enterprise Architecture Andrew Fawcett, 2019-11-04 Key Features Use the Lightning Platform to build integrated, scalable, and robust apps focused on enterprise-level customer demands Use the Lightning Component framework to deliver modern and responsive user experiences targeting multiple devices through Lightning Experience and Salesforce Mobile Extend your application with access to external services and AI Book Description Salesforce Lightning provides a secure and scalable platform to build, deploy, customize, and upgrade applications. This book will take you through the architecture of building an application on the Lightning platform to help you understand its features and best practices, and ensure that your app keeps up with your customers' increasing needs as well as the innovations on the platform. This book guides you in working with the popular aPaaS offering from Salesforce, the Lightning Platform. You'll see how to build and ship enterprise-grade apps that not only leverage the platform's many productivity features, but also prepare your app to harness its extensibility and customization capabilities. You'll even get to grips with advanced application architectural design patterns such as Separation of Concerns, Unit Testing and Dependency Integration. You will learn to use Apex and JavaScript with Lightning Web Components, Platform Events, among others, with the help of a sample app illustrating patterns that will ensure your own applications endure and evolve with the platform. Finally, you will become familiar with using Salesforce DX to develop, publish, and monitor a sample app and experience standard application life cycle processes along with tools such as Jenkins to implement CI/CD. By the end of this book, you will have learned how to develop effective business apps and be ready to explore innovative ways to meet customer demands. What you will learn Create and deploy AppExchange packages and manage upgrades Understand Enterprise Application Architecture patterns Customize mobile and desktop user experience with Lightning Web Components Manage large data volumes with asynchronous processing and big data strategies Implement Source Control and Continuous Integration Add AI to your application with Einstein Use Lightning External Services to integrate external code and data with your Lightning Application Who this book is for This book is for Lightning platform developers who want to discover the true potential of the platform to develop complex scalable applications for use in enterprise businesses.

Enterprise Application Architecture with .NET Core Ganesan Senthilvel, Ovais Mehboob Ahmed Khan, Habib Ahmed Qureshi, 2017-04-25 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.

Enterprise Architecture Made Simple Håkan Edvinsson, Lottie Aderinne, 2013-10-01 Learn how to institute and implement enterprise architecture in your organization. You can make a quick start and establish a baseline for your enterprise architecture within ten weeks, then grow and stabilize the architecture over time using the proven Ready, Set, Go Approach. Reading this book will: 1. Give you directions on how to institute and implement enterprise architecture in your organization. You will be able to build close relationships with stakeholders and delivery teams, but you will not need to micromanage the architecture's operations. 2. Increase your awareness that enterprise architecture is about business, not information technology. 3. Enable you to initiate and facilitate dramatic business development. The architecture of an enterprise must be tolerant of currently unknown business initiatives. 4. Show you how to get a holistic view of the process of implementing enterprise architecture. 5. Make you aware that information is a key business asset and that information architecture is a key part of the enterprise architecture. 6. Allow you to learn from our experiences. This book is based on our 30 years of work in the enterprise architecture field, colleagues in Europe, customer cases, and students. We do not pretend to cover all you need to know about enterprise architecture within these pages. Rather, we give you the information that is most important for effective and successful guidance. Sometimes, less is more. If your company is about to make a major change and you are looking for a way to reduce the changes into manageable pieces—and still retain control of how they fit together—this is your handbook. Maybe you are already acting as an enterprise architect and using a formal method, but you need practical hints. Or maybe you are about to set up an enterprise architect network or group of specialists and need input on how to organize your work. The Ready-Set-Go method for introducing enterprise architecture provides you, the enterprise architect, with an immediate understanding of the basic steps for starting, organizing, and operating the entirety of your organization's architecture. Chapter 1: Ready shows how to model and analyze your business operations, assess their current status, construct a future scenario, compare it to the current structure, analyze what you see, and show the result in a city plan. Chapter 2: Set deals with preparing for the implementation of the architecture with governance, enterprise architecture organization, staffing, etc. This is the organizing step before beginning the actual work. Chapter 3: Go establishes how to implement a city plan in practice. It deals with the practicalities of working as an enterprise architect and is called the "running" step. The common thread through all aspects of the enterprise architect's work is the architect's mastery of a number of tools, such as business models, process models, information models, and matrices. We address how to initiate the architecture process within the organization in such a way that the overarching enterprise architecture and architecture-driven approach can be applied methodically and gradually improved.

Enterprise Architecture at Work Marc Lankhorst, 2012-08-20 An enterprise architecture tries to describe and control an organisation's structure, processes, applications, systems and techniques in an integrated way. The unambiguous specification and description of components and their relationships in such an architecture requires a coherent architecture modelling language. Lankhorst and his co-authors present such an enterprise modelling language that captures the complexity of architectural domains and their relations and allows the construction of integrated enterprise architecture models. They provide architects with concrete instruments that improve their architectural practice. As this is not enough, they additionally present techniques and heuristics for communicating with all relevant stakeholders about these architectures. Since an architecture model is useful not only for providing insight into the current or future situation but can also be used to evaluate the transition from 'as-is' to 'to-be', the authors also describe analysis methods for assessing both the qualitative impact of changes to an architecture and the quantitative aspects of architectures, such as performance and cost issues. The modelling language presented has been proven in practice in many real-life case studies and has been adopted by The Open Group as an international standard. So this book is an ideal companion for enterprise IT or business architects in industry as well as for computer or management science students studying the field of enterprise architecture.

Masterclass Enterprise Architecture Management Jürgen Jung, Bardo Fraunholz, 2021-09-06 This textbook provides a hands-on introduction to enterprise architecture management. It guides the reader through the applications of methods and tools to typical business problems by presenting enterprise architecture frameworks and by sharing

experiences from industry. The structure of the book represents the typical stages of the journey of an enterprise architect. Chapter 1 addresses the central question of what to achieve with the introduction of an enterprise architecture. Chapter 2 then introduces concepts and visualizations for business architecture that help with understanding the business. In chapter 3 the development of an application architecture is outlined, which provides transparency on information systems and their business context. Next, chapter 4 presents visual tools to analyze, improve and eventually optimize the application landscape. Chapter 5 discusses both traditional organizational as well as collaborative approaches to enterprise architecture management. Eventually, several established enterprise architecture frameworks like TOGAF, Zachmann, ArchiMate, and IAF are described in chapter 6. The book concludes with a summary and an outlook on future research potential in chapter 7. Based on their experiences through several years of teaching, the authors introduce students step-by-step to enterprise architecture development and management. Their book is intended as a guide for master classes at universities and includes lots of exercises and references for further reading.

Business Architecture Management Daniel Simon, Christian Schmidt, 2015-04-22 This book presents a comprehensive overview of enterprise architecture management with a specific focus on the business aspects. While recent approaches to enterprise architecture management have dealt mainly with aspects of information technology, this book covers all areas of business architecture from business motivation and models to business execution. The book provides examples of how architectural thinking can be applied in these areas, thus combining different perspectives into a consistent whole. In-depth experiences from end-user organizations help readers to understand the abstract concepts of business architecture management and to form blueprints for their own professional approach. Business architecture professionals, researchers, and others working in the field of strategic business management will benefit from this comprehensive volume and its hands-on examples of successful business architecture management practices. □

Essential Software Architecture Ian Gorton, 2011-04-27 Job titles like “Technical Architect” and “Chief Architect” nowadays abound in software industry, yet many people suspect that “architecture” is one of the most overused and least understood terms in professional software development. Gorton’s book tries to resolve this dilemma. It concisely describes the essential elements of knowledge and key skills required to be a software architect. The explanations encompass the essentials of architecture thinking, practices, and supporting technologies. They range from a general understanding of structure and quality attributes through technical issues like middleware components and service-oriented architectures to recent technologies like model-driven architecture, software product lines, aspect-oriented design, and the Semantic Web, which will presumably influence future software systems. This second edition contains new material covering enterprise architecture, agile development, enterprise service bus technologies, RESTful Web services, and a case study on how to use the MeDICi integration framework. All approaches are illustrated by an ongoing real-world example. So if you work as an architect or senior designer (or want to someday), or if you are a student in software engineering, here is a valuable and yet approachable knowledge source for you.

Software Architecture for Business Lina Khalid, 2019-08-03 This book illustrates the role of software architecture and its application in business. The author describes enterprise architecture along with business architecture to show the role of software architecture in both areas. The place of software architecture in business is outlined from many perspectives in this context. The book outlines quality attributes and how managers can use software architecture to build high quality products. Topics include business software architecture, dealing with qualities, achieving quality attributes, managing business qualities, software product line, Internet of Things (IOT), and Service Oriented Business Architecture. The book is intended to benefit students, researchers, software architects, and business architects. Provides quick and easy access to all the important aspects of software architecture in business; Highlights a wide variety of concepts of software architecture in a straightforward manner, for students, practitioners, or architects; Presents different applications of software architecture in business.

Enterprise Architecture Martin Op't Land, Erik Proper, Maarten Waage, Jeroen Cloo, Claudia Steghuis, 2008-12-03 This book is positioned as a first in a series of books on enterprise architecture needed for a Master of Enterprise Architecture program, and is targeted both at university students and practitioners with a drive to increase their understanding of these fields. As an introductory book, this book aims to explore the concept of enterprise architecture. At first glance, writing such an introductory book might seem as a straight forward task of setting up a structure and filling in “the blanks.” However, writing this book turned out to be a pleasant journey of discovery. Based on our past experiences, each of us had a clear understanding of enterprise architecture, based on several years of experience and insight in the field. However, when we started writing this book, and each of us exposed our individual understandings, it became apparent that our understanding of the field differed in several ways. This prompted several discussions leading to an abundance of new insights. Without exception, these discussions took place in a pleasant and open atmosphere, fueled by our shared drive for understanding and increased insight. We are now even more convinced than before, that the field of enterprise architecture is a true multi-disciplinary profession. In the resulting book, we would like to share our insights, while also hoping to continue our discussions, now also involving you as a reader. We also realise that the journey is still far from complete. While this introductory book provides an overview of the field of enterprise architecture from the perspective of our insights, many aspects need further refinement.

Enterprise Architecture Patterns Thierry Perroud, Reto Inversini, 2015-08-09 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.

Fundamentals of Enterprise Architecture Management Jörg Ziemann, 2022-06-22 This textbook provides a comprehensive, holistic, scientifically precise, and practically relevant description of Enterprise Architecture Management (EAM). Based on state-of-the-art concepts, it also addresses current trends like disruptive digitization or agile methods. The book is structured in five chapters. The first chapter offers a comprehensive overview of EAM. It addresses questions like: what does EAM mean, what is the history of EAM, why do enterprises need EAM, what are its goals, and how is it related to digitalization? It also includes a short overview of essential EAM standards and literature. The second chapter provides an overview of Enterprise Architecture (EA). It starts with clarifying basic terminology and the difference between EA and EAM. It also gives a short summary of existing EA frameworks and methods for structuring the digital ecosystem into layers and views. The third chapter addresses the strategic and tactical context of the EAM capability in an enterprise. It defines essential terms and parameters in the context of enterprise strategy and tactics as well as the operative, organizational context of EAM. The fourth chapter specifies the detailed goals, processes, functions, artifacts, roles and tools of EAM, building the basis for an EAM process framework that provides a comprehensive overview of EAM processes and functions. Closing the circle, the last chapter describes how to evaluate EAM in an enterprise. It starts by laying out core terminology, like "metric" and "strategic performance measurement system" and ends with a framework that integrates the various measuring areas in the context of EA and EAM. This textbook focuses on two groups: First, EAM scholars, ie bachelor or master students of Business Information Systems, Business Administration or Computer Science. And second, EAM practitioners working in the field of IT strategy or EA who need a reliable, scientifically solid, and practically proven state-of-the-art description of essential EAM methods.

I/T Architecture in Action Richard J. Reese, 2008-03-31 This book is for business professionals interested in learning techniques for managing change in technology driven companies. It focuses on bridging business and I/T strategies through the Enterprise Architecture function. Unlike many books about I/T, it is not about building things. Rather, it is about what business people can do with what I/T produces. My experience is that a balance between strict rigor and organic innovation works best. The book you are about to read, I/T Architecture in Action, describes this balance. The author, Richard J. Reese, has done a fine job of blending his own experience with industry trends and facts in a book that is not too technical, yet will appeal to technicians. As he says, this is a management book about technology, not a technology book that touches on management. Diane Offereins, EVP/CTO Discover Financial Services LLC. An award winning leader in technology, Richard J. Reese is known for his ability to communicate technical topics to all levels of management. With nearly 30 years in I/T, he has worked as a senior leader in I/T Architecture for some of the largest companies in the world. Richard leads the Enterprise Architecture function at Discover Financial Services LLC (issuer of the Discover Card). He served as Vice President, Enterprise Architecture for W.W. Grainger, Inc., and was an Applications Architect for United Airlines. As an IBM employee, Richard achieved the designation of Certified I/T Architect in 1992 and was elected to serve on the I/T Architect Certification Board in 1993. Richard received his MBA from Loyola University of Chicago and a Bachelors Degree in Quantitative Information Science from Western Illinois University.

Microsoft .NET - Architecting Applications for the Enterprise Dino Esposito, Andrea Saltarello, 2014-08-28 A software architect's digest of core practices, pragmatically applied Designing effective architecture is your best strategy for managing project complexity—and improving your results. But the principles and practices of software architecting—what the authors call the "science of hard decisions"—have been evolving for cloud, mobile, and other shifts. Now fully revised and updated, this book shares the knowledge and real-world perspectives that enable you to design for success—and deliver more successful solutions. In this fully updated Second Edition, you will: Learn how only a deep understanding of domain can lead to appropriate architecture Examine domain-driven design in both theory and implementation Shift your approach to code first, model later—including multilayer architecture Capture the benefits of prioritizing software maintainability See how readability, testability, and extensibility lead to code quality Take a user experience (UX) first approach, rather than designing for data Review patterns for organizing business logic Use event sourcing and CQRS together to model complex business domains more effectively Delve inside the persistence layer, including patterns and implementation.

Enterprise Application Integration William A. Ruh, Francis X. Maginnis, William J. Brown, 2002-03-14 Learn to utilize today's hottest EAI technologies to ensure interoperability across your organization What exactly is enterprise application integration (EAI)? What makes this \$300 million market so hot that it's expected to grow to \$6.5 billion in the next two years? How do you apply it in the real world? Whether you're an IT professional or systems architect, business manager or software developer, if you're looking into EAI as a solution for unifying applications and systems across the enterprise, then the answers are in this book. You'll find a complete and unbiased survey of the different technologies, architectures, and approaches available for EAI implementations, including pros and cons, clear explanations of all concepts, and first-rate guidance on how to choose the best EAI strategy for your company. The authors draw on their pioneering work with early implementations to show you how to: Define your specific integration problem in a useful form that enables a real solution Develop your own EAI architecture and ensure interoperability of legacy, stovepipe, COTS, client-server and modern technology applications Choose the best among messaging architecture, object architecture, and transaction architecture Work with the best implementation technologies, including Microsoft's COM+, the OMG's CORBA, and Sun's EJB Utilize the proven Secure Application Integration Methodology (SAIM) Wiley Tech Briefs Focused on the needs of the corporate IT and business manager, the Tech Briefs series provides in-depth information on a new or emerging technology, solutions, and vendor offerings available in the marketplace. With their accessible approach, these books will help you get quickly up-to-speed on a topic so that you can effectively compete, grow, and better serve your customers.

Application Architecture for WebSphere Joey Bernal, 2008-09-15 Architect IBM® WebSphere® Applications for Maximum Performance, Security, Flexibility, Usability, and Value Successful, high-value WebSphere applications begin with effective architecture. Now, one of IBM's leading WebSphere and WebSphere Portal architects offers a hands-on, best-practice guide to every facet of defining, planning, and implementing WebSphere application architectures. Joey Bernal shows working architects and teams how to define layered architectural standards that can be used across the entire organization, improving application quality without compromising flexibility. Bernal begins by illuminating the role of architecture and the responsibilities of the architect in WebSphere applications and SOA environments. Next, he introduces specific architectural techniques for addressing persistence, application

performance, security, functionality, user interaction, and much more. Bernal presents a series of sample architectures drawn from his work with several leading organizations, demonstrating how architectures can evolve to support new layers and changing business requirements. Throughout, his techniques are specific enough to address realistic enterprise challenges, while still sufficiently high-level to be useful in diverse and heterogeneous environments. Coverage includes • Choosing persistence frameworks that serve business requirements without excessive complexity • Avoiding persistence-related problems with performance, security, or application functionality • Designing and deploying effective middle layers and dependent libraries within WebSphere Application Server • Using WebSphere mechanisms and architectural techniques to avoid common security attacks such as SQL injection • Improving performance with WebSphere Application Server caching, including Distributed Maps and Servlet/JSP fragment caching • Using presentation frameworks to provide fast, robust, and attractive user interaction • Incorporating portals that provide a standardized framework for merging multiple applications

Joey Bernal is an Executive IT Specialist with IBM Software Services for Lotus. Senior Certified with IBM as an IT Specialist, he has an extensive background in designing and developing Web and Portal Applications. He often leads IBM teams that have assisted dozens of clients in leveraging WebSphere Portal to address architecture, design, and implementation challenges. A frequent speaker on WebSphere and portal topics, Bernal is coauthor of Programming Portlets, and hosts the developerWorks blog: WebSphere Portal in Action. Prior to joining IBM, he was Director of IT for an incentive and performance improvement company, and served as lead technical advisor and architect for high-profile Internet and intranet applications at several Fortune 500 companies. You can also visit the author's Web site at www.bernal.net. The IBM Press developerWorks® Series is a unique undertaking in which print books and the Web are mutually supportive. The publications in this series are complemented by resources on the developerWorks Web site on ibm.com®. Icons throughout the book alert the reader to these valuable resources.

Cloud Native Architectures Tom Laszewski, Kamal Arora, Erik Farr, Piyum Zonooz, 2018-08-31 Learn and understand the need to architect cloud applications and migrate your business to cloud efficiently Key Features Understand the core design elements required to build scalable systems Plan resources and technology stacks effectively for high security and fault tolerance Explore core architectural principles using real-world examples Book Description Cloud computing has proven to be the most revolutionary IT development since virtualization. Cloud native architectures give you the benefit of more flexibility over legacy systems. To harness this, businesses need to refresh their development models and architectures when they find they don't port to the cloud. Cloud Native Architectures demonstrates three essential components of deploying modern cloud native architectures: organizational transformation, deployment modernization, and cloud native architecture patterns. This book starts with a quick introduction to cloud native architectures that are used as a base to define and explain what cloud native architecture is and is not. You will learn what a cloud adoption framework looks like and develop cloud native architectures using microservices and serverless computing as design principles. You'll then explore the major pillars of cloud native design including scalability, cost optimization, security, and ways to achieve operational excellence. In the concluding chapters, you will also learn about various public cloud architectures ranging from AWS and Azure to the Google Cloud Platform. By the end of this book, you will have learned the techniques to adopt cloud native architectures that meet your business requirements. You will also understand the future trends and expectations of cloud providers. What you will learn Learn the difference between cloud native and traditional architecture Explore the aspects of migration, when and why to use it Identify the elements to consider when selecting a technology for your architecture Automate security controls and configuration management Use infrastructure as code and CI/CD pipelines to run environments in a sustainable manner Understand the management and monitoring capabilities for AWS cloud native application architectures Who this book is for Cloud Native Architectures is for software architects who are keen on designing resilient, scalable, and highly available applications that are native to the cloud.

Enterprise Architect's Handbook Dr. Vishwakarma J S, 2022-09-20 Build Enterprise Systems Right KEY FEATURES ● Access to real-world design and building resources, including tools, templates, and more. ● Real-world examples and step-by-step instructions on what to avoid as you begin your enterprise architecture journey. ● Proficiency in all stages of the architecture and design deployment process. DESCRIPTION These days, more than ever, enterprise architects are the driving forces behind digital transformation initiatives and the vital link between IT and business. This book enables the readers to become self-sufficient Enterprise Architects by enabling them to understand the business strategy and design the technology landscape, encompassing systems, data, applications, platforms, and enterprise tools, following that strategy. To comprehend the technology landscape, topics such as Stakeholder Matrix, HeatMaps, Value Stream Mapping, ERDs, Infrastructure, and Network diagrams are discussed in depth in this book. The book also covers numerous approaches for measuring the effectiveness of architecture implementation, including Balanced ScoreCards, OKRs, and Value Drivers – Design Thinking. This book instructs readers on how to create data pillars for complex, interconnected corporate systems. The book teaches you how to implement various architectures, including service-oriented architecture. It describes and illustrates popular tools used by Architectural teams and professionals. The primary objective of this book is to match business requirements with the technical infrastructure that supports the service delivery team, business development team, and IT Integration team. This book ensures that the technologies chosen and how they are applied, satisfy the business goals of organizations and their customers. WHAT YOU WILL LEARN ● Architecture Strategy and Frameworks like TOGAF. ● Enterprise Architecture Maturity Assessment. ● Architecture Design and its Model Development. ● Selection of tools for Database, Application Design, Security, and Enterprise. ● Storage, Cloud Computing Infrastructure, and Application Deployment. ● Proof of Concept, Technology Stack Analysis, and Vendor Selection. ● Architecture Audit and Compliance, Data Governance. WHO THIS BOOK IS FOR Enterprise Architects, Business Managers, Technology Advisors, Functional Consultants, and Solution Architects who play a critical role in implementing the business plan into action through technology enablement will find a wealth of useful information in this book, whether they are just starting their journey or have years of experience under their belts. TABLE OF CONTENTS 1. Understanding Your Organization's Current Landscape - Complexities and Priorities 2. Strategic Direction, Value Drivers, and Expected Business Outcomes 3. B.A.I.T (Business Processes, Application, Information and Technology) in Context 4. Mind the GAP 5. Future Needs Perfect Execution - Setting Stage 6. Let's Set the Course for Enterprise Architecture 7. Strategic Themes and Architecture Enablers 8. Getting Started with Architecture Framework and Building Blocks 9. Defining the Architecture - Getting It Right 10. Solution Architecture and Roadmap 11. Architecture Governance 12. Architecture Tool and Reuse (ARIS as Sample) 13. Let's Get it Done - Transition and Tracking

Achieving Service-Oriented Architecture Rick Sweeney, 2010-04-20 A complete, comprehensive methodology and framework for adopting and managing a successful service oriented architecture environment Achieving Service-Oriented Architecture helps to set up an SOA Architecture Practice defining the policies, procedures, and standards that apply not just to IT developers but to the entire corporation as it relates to business applications. Why a new architectural approach is necessary for your business to achieve all the value SOA has to offer Focuses on setting up an enterprise architecture practice for service-oriented architecture Discusses the implementation and governance processes for SOA Defines and describes an overall architectural framework for managing SOA assets at an enterprise architecture level Shows how to set up and run an SOA Enterprise Architecture Practice using the methodology and framework presented Defining how an Architecture Practice can transform itself and your corporation to maximize the benefits of the SOA approach, Achieving Service-Oriented Architecture provides a pragmatic enterprise architecture approach and framework for implementing and managing service oriented architecture from a business organization and business practices perspective. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

This book delves into Business Applications Architect. Business Applications Architect is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Business Applications Architect, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Business Applications Architect
- Chapter 2: Essential Elements of Business Applications Architect
- Chapter 3: Business Applications Architect in Everyday Life
- Chapter 4: Business Applications Architect in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Business Applications Architect. This chapter will explore what Business Applications Architect is, why Business Applications Architect is vital, and how to effectively learn about Business Applications Architect.
3. In chapter 2, this book will delve into the foundational concepts of Business Applications Architect. The second chapter will elucidate the essential principles that must be understood to grasp Business Applications Architect in its entirety.
4. In chapter 3, the author will examine the practical applications of Business Applications Architect in daily life. This chapter will showcase real-world examples of how Business Applications Architect can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Business Applications Architect in specific contexts. The fourth chapter will explore how Business Applications Architect is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Business Applications Architect. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Business Applications Architect.

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