

Enterprise Architecture Solutions

The practice of enterprise architecture 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 The popularity of enterprise architecture (EA) has increased in the last two decades, in both business and academic domains. Despite the cumulative interest from all sectors, the implementation and practice of EA have been entangled with numerous challenges and complexities. Consequently, some organisations continue to theorise the concept, which has ramifications on practice and return on investment (ROI). This has led to many studies that have been conducted, to understand the complexities impacting the implementation and practice of EA in organisations. Yet, the trajectory of some convolutions remains mystery in many quarters. This attributes to the struggle to articulate the value of EA in many environments. Hence many organisations find it difficult to apply EA for strategic management of modern information technology (IT) solutions. Enterprise Architecture for Strategic Management of Modern IT Solutions provides guidance on how to employ EA in deploying and managing IT solutions from pragmatic and implementable strategies' perspectives. Until now, implementation and practice of EA have been slow, despite its growing popularity and interest from all sectors. The author employs sociotechnical theories such as actor-network theory (ANT) and structuration theory (ST) as lenses to examine and explain why and how challenges and complexities exist and derail the implementation or practice of EA in organisations. By doing so, this serves to enable practitioners and readers to gain fresh insights on why the challenges exist and how they can be addressed in creating collaborative capabilities for business enhancement, sustainability, and competitiveness. The book provides detailed insights on how to apply EA for organisational purposes, from three main fronts. First, it explains the implications that lack of understanding of EA have on organisational activities and processes. Second, it examines the challenges and complexities that hinder the implementation and practice of EA in organisations. Third, it proposes models and frameworks on how EA can be applied for strategic management of modern IT solutions in organisations. Written for postgraduates, researchers, academics, and professionals in the fields of EA, IT, and information systems, this book provides a valuable resource that will enable and enhance implementation and practice of EA including future studies.

The revised version of this book to provide essential guidance, compelling ideas, and unique ways to Enterprise Architects so that they can successfully perform complex enterprise modernisation initiatives transforming from chaos to coherence. This is not an ordinary theory book describing Enterprise Architecture in detail. There are myriad of books on the market and in libraries discussing details of enterprise architecture. My aim here is to highlight success factors and reflect lessons learnt from the field within enterprise modernisation and transformation context. As a practising Senior Enterprise Architect, myself, I read hundreds of those books and articles to learn different views. They have been valuable to me to establish my foundations in the earlier phase of my profession. However, what is missing now is a concise guidance book showing Enterprise Architects the novel approaches, insights from the real-life experience and experimentations, and pointing out the differentiating technologies for enterprise modernisation. If only there were such a guide when I started engaging in modernisation and transformation programs. The biggest lesson learned is the business outcome of the enterprise modernisation. What genuinely matters for business is the return on investment of the enterprise architecture and its monetising capabilities. The rest is the theory because nowadays sponsoring executives, due to economic climate, have no interest, attention, or tolerance for non-profitable ventures. I am sorry for disappointing some idealistic Enterprise Architects, but with due respect, it is the reality, and we cannot change it. This book deals with reality rather than theoretical perfection. Anyone against this view on this climate must be coming from another planet. In this concise, uncluttered and easy-to-read book, I attempt to show the significant pain points and valuable considerations for enterprise modernisation using a structured approach and a simple narration especially considering my audience from non-English speaking backgrounds. The architectural rigour is still essential. We cannot compromise the rigour aiming to the quality of products and services as a target outcome. However, there must be a delicate balance among architectural rigour, business value, and speed to the market. I applied this pragmatic approach to multiple substantial transformation initiatives and complex modernisations programs. The key point is using an incrementally progressing iterative approach to every aspect of modernisation initiatives, including people, processes, tools, and technologies as a whole. Starting with a high-level view of enterprise architecture to set the context, I provided a dozen of distinct chapters to point out and elaborate on the factors which can make a real difference in dealing with complexity and producing excellent modernisation initiatives. As eminent leaders, Enterprise Architects are the critical talents who can undertake this massive mission using their people and technology skills, in addition to many critical attributes such as calm and composed approach. Let's keep in mind that as Enterprise Architects, we are architects, not firefighters! I have full confidence that this book can provide valuable insights and some 'aha' moments for talented architects like yourself to tackle this enormous mission of turning chaos to coherence.

Modeling Enterprise Architecture with TOGAF explains everything you need to know to effectively model enterprise architecture with The Open Group Architecture Framework (TOGAF), the leading EA standard. This solution-focused reference presents key techniques and illustrative examples to help you model enterprise architecture. This book describes the TOGAF standard and its structure, from the architecture transformation method to governance, and presents enterprise architecture modeling practices with plenty of examples of TOGAF deliverables in the context of a case study. Although widespread and growing quickly, enterprise architecture is delicate to manage across all its dimensions. Focusing on the architecture transformation method, TOGAF provides a wide framework, which covers the repository, governance, and a set of recognized best practices. The examples featured in this book were realized using the open source Modelio tool, which includes extensions for TOGAF. Includes intuitive summaries of the complex TOGAF standard to let you effectively model enterprise architecture Uses practical examples to illustrate ways to adapt TOGAF to the needs of your enterprise Provides model examples with Modelio, a free modeling tool, letting you exercise TOGAF modeling immediately using a dedicated tool Combines existing modeling standards with TOGAF

Practical Solutions for Recurring IT-Architecture Problems

A Modern Enterprise Architecture Approach

Enriching EA with Lean, Agile, and Enterprise 2.0 Practices

Collaborative Enterprise Architecture

A Practical Guide to Enterprise Architecture

Enriching EA with Lean, Agile, and Enterprise 2.0 practices

Gain a 360-degree view of Microsoft Power Platform and combine the benefits of Power Apps, Power BI, Power Automate, Azure, and Dynamics 365 to build an enterprise application platform for your organization Key FeaturesExplore various Microsoft cloud components and find out how they can enhance your Power Platform solutionsGet to grips with Microsoft Power Platform's security and extensibility, integration, and data migration modesDiscover architectural best practices for designing complex enterprise solutionsBook Description For forward-looking architects and decision makers who want to craft complex solutions to serve growing business needs, Microsoft Power Platform Enterprise Architecture offers an array of architectural best practices and techniques. With this book, you'll learn how to design robust software using the tools available in the Power Platform suite and be able to integrate them seamlessly with various Microsoft 365 and Azure components. Unlike most other resources that are overwhelmingly long and unstructured, this book covers essential concepts using concise yet practical examples to help you save time. You'll develop the skills you need to architect, design, and manage a complex solution as you follow the journey of a fictitious enterprise customer as they enter the world of Power Platform. Throughout the book, you'll discover how to combine the functionality of Power Apps, Power Automate, Power BI, and Power Virtual Agents with various methodologies to effectively address application lifecycle management, security, and extensibility. Finally, you'll learn how to overcome common challenges in migrating data to and from Microsoft Power Platform using proven techniques. 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. What you will learn/Understand various Dynamics 365 CRM, ERP, and AI modules for creating Power Platform solutionsEnhance Power Platform with Microsoft 365 and Azure/Find out which regions, staging environments, and user licensing groups need to be employed when creating enterprise solutionsImplement security by using various authentication and authorization techniquesExtend Power Apps, Power BI, and Power Automate to create custom applicationsIntegrate your solution with various in-house Microsoft components or third-party systems using integration patternsWho this book is for This book is for enterprise architects and technical decision makers who want to craft complex solutions using Microsoft Power Platform to serve growing business needs and to stay competitive in the modern IT world. A basic understanding of Microsoft Power Platform will help you to get started with this book.

Architect and deliver packaged Force.com applications that cater to enterprise business needs About This Book Explore the lightning framework, advanced application life cycle processes, and testing Use the Force.com platform to build truly integrated, scalable, and robustly engineered applications focused on enterprise-level customer demands Using the Lightning technology to deliver modern and responsive user experiences targeting multiple devices through Lightning Experience and Salesforce1 Mobile. Step-by-step, work on examples to get you building your own ready-to-install packaged application Who This Book Is For This book is for advanced Force.com developers and architects who need to understand the Salesforce platform from the perspective of enterprise-level requirements. A prior understanding of Apex and Visualforce is a must. Those familiar with other enterprise software ecosystems will also find this book ideal if they adopt Force.com. What You Will Learn Package, install, test, and upgrade an application Define architecture-aligning data storage and functional requirements Develop Apex code that is easy to navigate, self-documenting, testable, robust, and organic Leverage your application's clientagnostic Service layer backbone to support numerous platform areas Get the most out of hosting your application within the Lightning Experience and Salesforce1 Mobile clients Apply querying, indexing, and asynchronous best practices Leverage mocking and dependency injection in your Apex tests Explore tips for developing advanced applications in Detail Companies of all sizes have seen the need for Force.com's architectural strategy focused on enabling their business objectives. Each enterprise requires planning, commitment, and investment in the best tools, processes, and features available. This book will teach you how to architect and support enduring applications for enterprise clients with Salesforce by exploring how to identify architectural needs and design solutions based on industry standard patterns. There are several ways to build solutions on Force.com, and this book will guide you through a logical path and show you the steps and considerations required to build packaged solutions from start to finish. It covers all aspects, from engineering to getting your application into the hands of your customers, and ensuring that they get the best value possible from your Force.com application. You will get acquainted with extending tools such as Lightning App Builder, Process Builder, and Flow with your own application logic. In addition to building your own application API, you will learn the techniques required to leverage the latest Lightning technologies on desktop and mobile platforms. Style and approach The book takes a straightforward approach, taking apart the Force.com architecture for you to gain a deep understanding of how you can implement the Salesforce platform based on enterprise-level requirements. This book presents an approach to enterprise architecture, which enables corporations to achieve their business objectives faster. Focusing on the governance of IT in the organization, it provides tangible tools, advice and strategies for implementing and designing the architectural process within a corporation that will make a major contribution in driving the business forward and achieve its goals.

The first Enterprise Architecture book that compares the 14 most popular Enterprise Architecture Frameworks in the world. A unique book for CIO's, Enterprise Architects and all others interested in EA.

Solution Architecture Foundations

A guide for architects and decision makers to craft complex solutions tailored to meet business needs

Microsoft Power Platform Enterprise Architecture

Enterprise Architecture 78 Success Secrets - 78 Most Asked Questions on Enterprise Architecture - What You Need to Know

Architecting Enterprise Solutions

Enterprise Architecture Function

This IBM® Redbooks® publication explains how to combine business process management (BPM) and Enterprise Architecture (EA) for better business outcomes. This book provides a unique synergistic approach to BPM and EA, based on a firm understanding of the life cycles of the enterprise and the establishment of appropriate collaboration and governance processes. When carried out together, BPM provides the business context, understanding, and metrics, and EA provides the discipline to translate business vision and strategy into architectural change. Both are needed for sustainable continuous improvement. This book provides thought leadership and direction on the topic of BPM and EA synergies. Although technical in nature, it is not a typical IBM Redbooks publication. The book provides guidance and direction on how to collaborate effectively across tribal boundaries rather than technical details about IBM software products. The primary audience for this book is leaders and architects who need to understand how to effectively combine BPM and EA to drive, as a key differentiator, continuous improvement and transformational change with enterprise scope.

This coursebook supports and accompanies the BCS Foundation Certificate in Solution Architecture. The book is fully aligned to the certificate's content, learning objectives and reference list and covers everything candidates will need to know to pass the exam. Case studies and test questions to support learning are included throughout.

Why collaborative enterprise architecture? -- What is enterprise architecture -- What enterprise architects do: core activities of EA -- EA frameworks -- EA maturity models -- Foundations of collaborative EA -- Towards pragmatism: lean and agile EA -- Inviting to participation: eam 2.0 -- The next steps: taking collaborative EA forward.

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.

How to Make It Work

Concepts, Challenges, Recommendations

Cracking the IT Architect Interview

Fourth Edition

Continuous Architecture

Practical Model-Driven Enterprise Architecture

To provide structure and transparency to the complex world of IT, Enterprise Architecture was created. However, we created complexities within Enterprise Architecture with Frameworks that are not easily understandable and purposefully implementable. In this book, Nagesh and Gerry help to turnaround Enterprise Architecture organizations. They introduce a simple IDEA Framework that is based on common practices and investments within IT organizations. The Ten deliverables presented in this book bring structure and clarity to IT organizations that are 10-people IT shops and 1000+ IT staff enterprises alike. This book is not an ivory tower work, it is actionable, applied Enterprise Architecture. It is also a healthy dose of EA tough love. If you want to know why EA fails, read the second chapter. It is introspective, it does not blame external forces: the not-my-fault syndrome. It also does not blame, in fact it hardly mentions, technology. To be fair, the Nagesh and Gerry do recognize external influences; however they are viewed as risks that must be managed. Most corporations focus on this years budget, investments, and rewards. The same focus rolls downhill to the Information Technology department. If the IT department has not successfully communicated the budget and managed to spend it within the limits (10% variance), everything else may seem irrelevant. Eventually, Nagesh and Gerry started looking through current IT systems and IT assets to understand: (a) where the current funds were being invested, (b) how these investments jelled or were mandated because of the previous investments that had been made by IT, and (c) how the company's business priorities aligned with future technology needs, including the need to meet compliance requirements. Considering and discovering the answers to these three questions led Nagesh and Gerry to develop a definition of Enterprise Architecture that was based on technology investments Investment Driven Enterprise Architecture (IDEA) Framework. The purpose of the IDEA Framework is to provide guidance on how the corporations future technology will be drafted and communicated. Its method is to utilize actual systems, hardware, people, and business functions in order to establish boundaries within which the IDEA Framework will work. The structure of the IDEA Framework differs from that of many others because it consists of key deliverables that fit into day-to-day activities and it accommodates an enterprise-wide strategic plan. It also provides for the much-needed interaction between these key deliverables and facilitates contributions from key stakeholders across Business Units and the various IT departments. In essence, the IDEA Framework takes the key deliverables, stakeholders, and organizations and demonstrates how they dynamically function together.

An update to the 1st Edition, the 2nd Edition of the Enterprise Architecture Sourcebook Volume 1 has been completely revised and updated. It addresses twelve of the most popular commercial, government, and defense-related architecture frameworks and the two standard architecture development approaches: product-centric and data-centric. It provides a comprehensive overview of the current state of architecture practice.

The book introduces topics in a broad context using a "best practices" model. Then the Troux Transformation Platform is used to provide concrete examples for the concepts. The book reads more like a novel than a manual, but provides insight and background to topics. In addition to clear language, many illustrations and graphics are included to enhance concepts. The book is not intended to be a user manual nor does it take the place of online content best managed by websites. This book is for the IT professional interested in using the rich content available in IT management systems to drive business value. Anyone involved in managing IT systems, defining IT architectures, managing IT standards, responsible for Enterprise Architecture, or the Enterprise Program Management Office, will enjoy reading this book. In addition, users of the Troux Transformation Platform or IT professionals implementing the TOGAF/ITM methodology will find this book a useful reference tool.

Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA-business, information, application, integration, security, and technology-illustrating the current and impending implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural types such as enterprise-scale integration, security, management, and governance architectures This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

Enterprise Architect 288 Success Secrets - 288 Most Asked Questions on Enterprise Architect - What You Need to Know

The Software Architect Elevator

A Practical Guide Using UML and BPMN

Emerging Research and Opportunities

Enterprise Architecture

Cloud Enterprise Architecture

The overall functions of a government impact a wide range of sectors in society. It is imperative for governments to work at full capacity and potential in order to ensure quality progress for its citizens. Driving Efficiency in Local Government Using a Collaborative Enterprise Architecture Framework: Emerging Research and Opportunities is an essential scholarly publication for the latest research on methods for smart government initiatives and implementations, and addresses prevalent internal and external security risks. Featuring extensive coverage on a broad range of topics such as technology funds, mobile technology, and cloud computing, this book is ideally designed for professionals, academicians, researchers, and students seeking current research on the ways in which governments can advance and prosper.

Enterprise architects' are expounders of organization architecture; an data technics administration subject that runs inside corporations. There has never been a Enterprise Architect Guide like this. It contains 288 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about Enterprise Architect. A quick look inside of some of the subjects covered: Enterprise Life Cycle - Overview, Enterprise architecture - Examples of enterprise architecture use, Matt Stephens, U.S. Securities and Exchange Commission - Divisions, System Architect (software) - Features, Jeanne W. Ross, Chief Software Architect - Other types of IT-related Architects, MODAF - Tools and Tooling, Resource Description Framework - Applications, Enterprise modelling - Enterprise modelling techniques, Information engineering - Further reading, Enterprise Service Bus - Managed Message Processing, Dynamic Enterprise, Software AG - History, Architecture framework, Solutions architect, Cambridge Technology Partners - Services, Information architecture - Debate, Zachman Framework - Framework for enterprise architecture, Department of Defense Architecture Framework - Overview, Enterprise Architecture Planning - Zachman Framework, Application Portability Profile - APP and the NIST Enterprise Architecture Model, Service oriented architecture - Other SOA concepts, Enterprise Architectifications - Design Professionals, and much more.

An enterprise architect (EA) is a rigorous description of the structure of an enterprise, which comprises enterprise components (business entities), the externally visible properties of those components, and the relationships (e.g. the behavior) between them. EA describes the terminology, the composition of enterprise components, and their relationships with the external environment, and the guiding principles for the requirement (analysis), design, and evolution of an enterprise. This description is comprehensive, including enterprise goals, business process, roles, organizational structures, organizational behaviors, business information, software applications and computer systems. Practitioners of EA call themselves "enterprise architects." An enterprise architect is a person responsible for developing the enterprise architecture and is often called upon to draw conclusions from it. By producing an enterprise architecture, architects are providing a tool for identifying opportunities to improve the enterprise, in a manner that more effectively and efficiently pursues its purpose. This book is your ultimate resource for Enterprise Architecture. Here you will find the most up-to-date information, analysis, background and everything you need to know. In easy to read chapters, with extensive references and links to get you to know all there is to know about Enterprise Architecture right away, covering: Enterprise architecture, AGATE (architecture framework), Applications architecture, ArchiMate, Architecture domain, Architecture of Integrated Information Systems, Architecture Tradeoff Analysis Method, ARID, Andy Blumenthal, Enterprise Architecture Body of Knowledge, Business architecture, Business Architecture - Building Blocks, Canonical Model, CIMOSA, CLEAR Framework for Enterprise Architecture, Clinger-Cohen Act, Conformit, Contract management, Core Architecture Data Model, Data architecture, Department of Defense Architecture Framework, Dynamic enterprise, Enterprise architect, Enterprise Architecture Assessment Framework, Enterprise Architecture framework, Enterprise Architecture Management, Enterprise architecture planning, Enterprise Collaboration Architecture, Enterprise content management, Enterprise engineering, Enterprise feedback management, Enterprise information management, Enterprise information security architecture, Enterprise Information System, Enterprise integration, Enterprise life cycle, Enterprise Output Management, Enterprise software, Enterprise system, Extended Enterprise, FDIC Enterprise Architecture Framework, Federal Enterprise Architecture, Federated Architecture, Functional Software Architecture, GNU Enterprise, Government Enterprise Architecture, Habanero.NET, Information architecture, Information Framework, Ingage Networks, Integrated Architecture Framework, Interactive architecture, IServer, Macroscope (methodology suite), MIKE2.0 Methodology, Mobile enterprise application platform, Mobile Enterprise Asset Management, MODAF, MODAF Meta-Model, NATO Architecture Framework, NIST Enterprise Architecture Model, OBASHI, The Open Group Architecture Framework, Operating model, Operational View, Orbus Software, POLDAT, Praxeme, Ptech, Reference architecture, RM-ODP, SAP Enterprise Architecture Framework, Sherwood Applied Business Security Architecture, Solutions Architect, Sysco, System Architect (software), TAFIM, Technical architecture, Technology stack, ThoughtWorks, TRAK, Treasury Enterprise Architecture Framework, Treasury Information System Architecture Framework, Tryton, UPDM, View model, Zachman Framework This book explains in-depth the real drivers and workings of Enterprise Architecture. It reduces the risk of your technology, time and resources investment decisions by enabling you to compare your understanding of Enterprise Architecture with the objectivity of experienced professionals.

As the digital economy changes the rules of the game for enterprises, the role of software and IT architects is also transforming. Rather than focus on technical decisions alone, architects and senior technologists need to combine organizational and technical knowledge to effect change in their company's structure and processes. To accomplish that, they need to connect the IT engine room to the penthouse, where the business strategy is defined. In this guide, author Gregor Hohpe shares real-world advice and hard-learned lessons from actual IT transformations. His anecdotes help architects, senior developers, and other IT professionals prepare for a more complex but rewarding role in the enterprise. This book is ideal for: Software architects and senior developers looking to shape the company's technology direction or assist in an organizational transformation Enterprise architects and senior technologists searching for practical advice on how to navigate technical and organizational topics CTOs and senior technical architects who are devising an IT strategy that impacts the way the organization works IT managers who want to learn what's worked and what hasn't in large-scale transformation

Troux Enterprise Architecture Solutions

Enterprise Architecture Turnaround

Redefining the Architect's Role in the Digital Enterprise

Enterprise Architecture for Strategic Management of Modern IT Solutions

A Modern Approach to Business and IT Alignment

Creating Value by Informed Governance

Enterprise business needs have prompted large companies to rethink their enterprise IT. Today, businesses must interact with their customers, partners, and employees at more touch points and at a depth never thought previously. At the same time, rapid advances in information technologies, like business digitization, cloud computing, and Web 2.0, demand fundamental changes in enterprises' management practices. These changes have a drastic effect not only on IT and business, but also on policies, processes, and people. Many companies therefore embark on enterprise-wide transformation initiatives. The role of Enterprise Architecture (EA) is to architect and supervise this transformational journey. Unfortunately, today's EA is often a ponderous and detached exercise, with most of the EA initiatives failing to create visible impact. The enterprises need an EA that is agile and responsive to business dynamics. Collaborative Enterprise Architecture provides the innovative solutions today's enterprises require, informed by real-world experiences and experts' insights. This book, in its first part, provides a systematic compendium of the current best practices in EA, analyzes current ways of doing EA, and identifies its constraints and shortcomings. In the second part, it leaves the beaten tracks of EA by introducing Lean, Agile, and Enterprise 2.0 concepts to the traditional EA methods. This blended approach to EA focuses on practical aspects, with recommendations derived from real-world experiences. A truly thought-provoking and pragmatic guide to manage EA, Collaborative Enterprise Architecture effectively merges the long-term oriented top-down approach with pragmatic bottom-up thinking, and that way offers real solutions to businesses undergoing enterprise-wide change. Covers the latest emerging technologies affecting business practice, including digitization, cloud computing, agile software development, and Web 2.0 Focuses on the practical implementation of EAM rather than theory, with recommendations based on real-world case studies Addresses changing business demands and practices, including Enterprise 2.0, open source, global sourcing, and more Takes an innovative approach to EAM, merging standard top-down and pragmatic, bottom-up strategies, offering real solutions to businesses undergoing enterprise-wide changes Bridges the gap between theory and reality by implementing real-world examples using the Spax 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 metadata · Learn how to use Spax 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 Spax 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 Spax 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 metadata 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 area. Although not mandatory, experience modeling in Spax Systems Enterprise Architect using any modeling language will be helpful. No prior knowledge of ArchiMate® is required to get started with this book.

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 implementation perspectives.

The ultimate guide to successful interviews for Enterprise, Business, Domain, Solution, and Technical Architect roles as well as IT Advisory Consultant and Software Designer roles About This Book Learn about Enterprise Architects IT strategy and NFR - This book provides you with methodologies, best practices, and frameworks to ace your interview A holistic view of key architectural 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 metadata · Learn how to use Spax 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 Spax 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 Spax 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 metadata 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 area. Although not mandatory, experience modeling in Spax Systems Enterprise Architect using any modeling language will be helpful. No prior knowledge of ArchiMate® is required to get started with this book.

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Based on an extensive study of the actual industry best practices, this book provides a systematic conceptual description of an EA practice and offers practically actionable answers to the key questions related to enterprise architecture.

bull; Written by expert practitioners who have hands-on experience solving real-world problems for large corporations bull; Helps enterprise architects make sense of data, systems, software, services, product lines, methodologies, and much more bull; Provides explanation of theory and implementation with real-world business examples to support key points

Combining Business Process Management and Enterprise Architecture for Better Business Outcomes
High-Impact Strategies - What You Need to Know: Definitions, Adoptions, Impact, Benefits, Maturity, Vendors

Driving Efficiency in Local Government Using a Collaborative Enterprise Architecture Framework: Emerging Research and Opportunities
An Introduction to Holistic Enterprise Architecture

Sustainable Architecture in an Agile and Cloud-Centric World
Creating Or Choosing an Enterprise Architecture Framework

Innovate at scale through well-architected API-led products that drive personalized, predictive, and adaptive customer experiences Key FeaturesStrategize your IT investments by modeling enterprise solutions with an API-centric approachBuild robust and reliable API platforms to boost business agility and omnichannel deliveryCreate digital value chains through the productization of your APIsBook

Description API-centric architectures are foundational to delivering omnichannel experiences for an enterprise. With this book, developers will learn techniques to design loosely coupled, cloud-based, business-tier interfaces that can be consumed by a variety of client applications. Using real-world examples and case studies, the book helps you get to grips with the cloudbased design and implementation of reliable and resilient API-centric solutions. Starting with the evolution of enterprise applications, you'll learn how API-based integration architectures drive digital transformation. You'll then learn about the important principles and practices that apply to cloud-based API architectures and advance to exploring the different architecture styles and their implementation in Azure. This book is written from a practitioner's point of view, so you'll discover ideas and practices that have worked successfully in various customer scenarios. By the end of this book, you'll be able to architect, design, deploy, and monetize your API solutions in the Azure cloud while implementing best practices and industry standards. What you will learnExplore the benefits of API-led architecture in an enterpriseBuild highly reliable and resilient, cloud-based, API-centric solutionsPlan technical initiatives based on Well-Architected Framework principlesGet to grips with the productization and management of your API assets for value creationDesign high-scale enterprise integration platforms on the Azure cloudStudy the important principles and practices that apply to cloud-based API architecturesWho this book is for This book is for

solution architects, developers, engineers, DevOps professionals, and IT decision-makers who are responsible for designing and developing large distributed systems. Familiarity with enterprise solution architectures and cloud-based design will help you to comprehend the concepts covered in the book easily.

This book is positioned as a rst 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 elds. As an introductory book, this book aims to explore the concept of enterprise architecture. At rst glance, writing such an introductory book might seem as a straight forward task of setting up a structure and lling 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 eld. However, when we started writing this book, and each of us exposed our individual understandings, it became apparent that our understanding of the eld differed in several ways. This prompted several discussions leading to an abundance of new insights. Without exception, thesediscussiontookplaceina pleasantandopenatmosphere.fueledbyourshared driveforunderstandingandincreasedinsight. Wearenovewmoreconvincedthan before, that the eld 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 eld of enterprise architecture from the perspective of our insights, many aspects need further re nement.

Based on an extensive research project done by the author in the United States, Britain, Germany, France, Switzerland, Sweden, and Austria from December 1999 to June 2001, Enterprise Architecture and New Generation Information Systems focuses on four main themes: Next Generation Information Technology The Likely Technologies
Conventional wisdom of the "software stack" approach to building applications may no longer be relevant. Enterprises are pursuing new ways of organizing systems and processes to become service oriented and event-driven. Leveraging existing infrastructural investments is a critical aspect to the success of companies both large and small. Enterprises have to adapt their systems to support frequent technological changes, mergers and acquisitions. Furthermore, in a growing global market, these systems are being called upon to be used by external business partners. Technology is often difficult, costly and complex and without modern approaches can prevent the enterprise from becoming agile. Enterprise Service Oriented Architectures helps readers solve this challenge in making different applications communicate in a loosely coupled manner. This classic handbook leverages the experiences of thought leaders functioning in multiple industry verticals and provides a wealth of knowledge for creating the agile enterprise. In this book, you will learn: • How to balance the delivery of immediate business value while creating long-term strategic capability • Fundamental principles of a service-oriented architecture (find, bind and execute) • The four aspects of SOA (Production, Consumption, Management and Provisioning) • How to recognize critical success factors to implementing enterprise SOAs • Architectural importance of service registries, interfaces and contracts • Why improper service decomposition can hurt you later rather than sooner • How application design and integration practices change as architects seek to implement the "agile" enterprise About the Authors James McGovern is an enterprise architect for The Hartford. He is an industry thought leader and co-author of the bestselling book: A Practical Guide to Enterprise Architecture. Oliver Sims is a recognized leader in the architecture, design and implementation of service-oriented and component-based enterprise systems. He was

a founding member of the OMG Architecture Board. He was co-author of the groundbreaking book: Business Component Factory. Ashish Jain is a Principal Architect with Ping Identity Corporation, a leading provider of solutions for identity federation. Prior to joining Ping Identity, he worked with BEA Systems where his role was to assist BEA customers in designing and implementing their e-business strategies using solutions based on J2EE. He holds several industry certifications from SUN and BEA and is also a board member for the Denver BEA User group. Mark Little is Director of Standards and SOA Manager for JBoss Inc. Prior to this, he was Chief Architect for Arjuna Technologies Ltd and a Distinguished Engineer at Hewlett-Packard. As well as being an active member of the OMG, JCP, OASIS and W3C, he is an author on many SOA and Web Services standards. He also led the development of the world's first standards-compliant Web Services Transaction product.

Pattern Enterpr Applic Arch
Fowler

A Pattern Language for Planning, Design and Execution
How to Survive in the Jungle of Enterprise Architecture Frameworks

Modeling Enterprise Architecture with TOGAF
IT Architecture D Essential Practice For IT Business Solutions

This is the only book on holistic (organization-wide) enterprise architecture (EA) that integrates strategic, business, and technology planning. The approach includes detailed information on EA governance, implementation, and use, including an example case study, a new chapter on solution architecture methods, and a new chapter on the use of EA to support organizational restructuring as part of mergers and acquisitions. Written in plain language, this book is recommended for executives, managers, and staff in large, complex public and private sector organizations that are too slo'd and/or have highly dynamic operating environments. No prior knowledge on the subject is needed.

"This book provides guidance on how to employ enterprise architecture (EA) in deploying and managing information technology (IT) solutions from the perspectives of pragmatic strategies. It uses sociotechnical theories such as actor-network theory (ANT) and structuration theory (ST) as lenses to examine challenges and complexities of EA"--

There has never been a Enterprise Architecture manual like this. Enterprise Architecture 78 Success Secrets is not about the ins and outs of Enterprise Architecture. Instead, it answers the top 78 questions that we are asked and those we come across in forums, our consultancy and education programs. It tells you exactly how to deal with those questions, with tips that have never before been offered in print. This guidebook is also not about Enterprise Architecture best practice and standards details. Instead it introduces everything you want to know to be successful with Enterprise Architecture. A quick look inside of the subjects covered: Enterprise Architecture Planning: Its Purpose and Definition, Integrated Architecture Framework The Early Stage of Enterprise Architecture, Framework For Success in Enterprise Architecture, Enterprise Architecture Design The Four Domains of FDA, A General Overview of Enterprise Architecture, The Importance of IT Enterprise Architecture, Net Enterprise Architecture: Simplifying Application Distribution, What is Enterprise Architecture PPT?, Everything Good Comes out of Enterprise Architecture Development, The Two Types of Enterprise Architecture Certification, The Ups, Downs and Roundabouts of an Enterprise Architecture Diagram, Enterprise architecture has been gaining popularity because of its obvious benefits to organizations, Gartner Enterprise Architecture Summit: Reflecting the Developments in IT Architecture, What DoD Enterprise Architecture Brings, DHS Enterprise Architecture: Solving Inter-organizational Issues and Concerns, Doing Enterprise Architecture with Sparx Enterprise Architect, The Requirements for Enterprise Architecture Integration, Developing of Enterprise Architecture Strategy is Important, Maturity Issues? Not a Problem in Enterprise Architecture, What Is Business Enterprise Architecture?, A Quick Look at an Enterprise Architecture Model, Enterprise Architecture Assessment: Evaluating the Lessons of Architecture Projects,

The Federal Enterprise Architecture, Enterprise Architecture Conference Collaborating with EA Advocates around the World, Using Patterns of Enterprise Architecture: Not Just A Mere Copy And Paste, Different Enterprise Architecture Jobs According to TOGAF, A Sun Enterprise Architect Plus Company EA Team Equals Better Enterprise Architecture, DoDAF Enterprise Architecture: Providing Solutions to Large Organization, Key Considerations in Enterprise Architecture Models, How An Enterprise Architecture Program Can Provide Solid Solutions, Why Modeling in Enterprise Architecture Can Encourage Success, Like architecture summit, the enterprise architecture conferences provide great knowledge value for, and much more...

Continuous Architecture provides a broad architectural perspective for continuous delivery, and describes a new architectural approach that supports and enables it. As the pace of innovation and software releases increases, IT departments are tasked to deliver value quickly and inexpensively to their business partners. With a focus on getting software into end-users hands faster, the ultimate goal of daily software updates is in sight to allow teams to ensure that they can release every change to the system simply and efficiently. This book presents an architectural approach to support modern application delivery methods and provide a broader architectural perspective, taking architectural concerns into account when deploying agile or continuous delivery approaches. The authors explain how to solve the challenges of implementing continuous delivery at the project and enterprise level, and the impact on IT processes including application testing, software deployment and software architecture. Covering the application of enterprise and software architecture concepts to the Agile and Continuous Delivery models Explains how to create an architecture that can evolve with applications Incorporates techniques including refactoring, architectural analysis, testing, and feedback-driven development Provides insight into incorporating modern software development when structuring teams and organizations

Enterprise Architecture Patterns
Driving Business Value Through Strategic IT Alignment

Design a mature enterprise architecture repository using Sparx Systems Enterprise Architect and ArchiMate® 3.1
Force.com Enterprise Architecture

Dynamic Enterprise Architecture
Enterprise Architecture and New Generation Information Systems

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.

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

Designing API-First Enterprise Architectures on Azure
A guide for architects and developers to expedite digital transformation with API-led architectures

REALIZE ENTERPRISE ARCHITECTURE WITH AWS AND SAFE
Enterprise Service Oriented Architectures