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Mastering ArchiMate Edition 3.1

TOGAF® Version 9.1

Enterprise Architecture

ArchiMate® 2 Certification Study Guide

MANUFACTURING PROCESSES 4-5. (PRODUCT ID 23994334).

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Introduction to Solution Architecture

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BRANSON DECKER

Mastering ArchiMate Edition 3.1 Van
Haren

The authors of the international bestseller Business Model Generation explain how to create value propositions customers can't resist Value Proposition Design helps you tackle the core challenge of every business — creating compelling products and services customers want to buy. This highly practical book, paired with its online companion, will teach you the processes

and tools you need to create products that sell. Using the same stunning visual format as the authors' global bestseller, Business Model Generation, this sequel explains how to use the "Value Proposition Canvas" to design, test, create, and manage products and services customers actually want. Value Proposition Design is for anyone who has been frustrated by new product meetings based on hunches and intuitions; it's for anyone who has watched an expensive new product launch fail in the market. The book will help you understand the patterns of great value propositions, get closer to

customers, and avoid wasting time with ideas that won't work. You'll learn the simple process of designing and testing value propositions, that perfectly match customers' needs and desires. In addition the book gives you exclusive access to an online companion on Strategyzer.com. You will be able to assess your work, learn from peers, and download pdfs, checklists, and more. Value Proposition Design is an essential companion to the "Business Model Canvas" from Business Model Generation, a tool embraced globally by startups and large corporations such as MasterCard, 3M, Coca Cola, GE, Fujitsu, LEGO, Colgate-Palmolive, and many more. Value Proposition Design gives you a proven methodology for success, with value propositions that sell,

embedded in profitable business models."

TOGAF® Version 9.1 Springer

This volume constitutes the proceedings of the 12th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2019 in Luxembourg, Luxembourg. The conference was created by the International Federation for Information Processing (IFIP) Working Group 8.1 to offer a forum for knowledge transfer and experience sharing between the academic and practitioner communities. The 15 full papers accepted were carefully reviewed and selected from 35 submissions. They are grouped by the following topics: modeling and ontologies; reference architectures and patterns; methods for architectures and models; and enterprise

architecture for security, privacy and compliance.

Enterprise Architecture Van Haren Publishing

TOGAF is a framework - a detailed method and a set of supporting tools - for developing an enterprise architecture, developed by members of The Open Group Architecture Forum. TOGAF Version 9.1 is a maintenance update to TOGAF 9, addressing comments raised since the introduction of TOGAF 9 in 2009. It retains the major features and structure of TOGAF 9, thereby preserving existing investment in TOGAF, and adds further detail and clarification to what is already proven. It may be used freely by any organization wishing to develop an enterprise architecture for use within that

organization (subject to the Conditions of Use). This Book is divided into seven parts: Part I - Introduction This part provides a high-level introduction to the key concepts of enterprise architecture and in particular the TOGAF approach. It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF. Part II - Architecture Development Method This is the core of TOGAF. It describes the TOGAF Architecture Development Method (ADM) - a step-by-step approach to developing an enterprise architecture. Part III - ADM Guidelines & Techniques This part contains a collection of guidelines and techniques available for use in applying TOGAF and the TOGAF ADM. Part IV -

Architecture Content Framework This part describes the TOGAF content framework, including a structured metamodel for architectural artifacts, the use of re-usable architecture building blocks, and an overview of typical architecture deliverables. Part V - Enterprise Continuum & Tools This part discusses appropriate taxonomies and tools to categorize and store the outputs of architecture activity within an enterprise. Part VI - TOGAF Reference Models This part provides a selection of architectural reference models, which includes the TOGAF Foundation Architecture, and the Integrated Information Infrastructure Reference Model (III-RM). Part VII Architecture Capability Framework This section looks at roles, Governance, compliance skills

and much more practical guidance ArchiMate® 2 Certification Study Guide Springer
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.

MANUFACTURING PROCESSES 4-5. (PRODUCT ID 23994334). Van Haren

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 realize 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. CBAP / CCBA Certified Business Analysis Study Guide Steps Publishing Australia The ArchiMate® Specification, an Open Group Standard, defines an open and independent modeling language for Enterprise Architecture that is supported by different tool vendors and consulting firms. The ArchiMate language enables Enterprise Architects to describe, analyze, and visualize the relationships

among business domains in an unambiguous way. This book is the official specification of the ArchiMate 3.0.1 modeling language from The Open Group. ArchiMate 3.0.1 is a minor update to ArchiMate 3.0, containing the set of corrections from ArchiMate 3.0 Technical Corrigendum No. 1 (U172). This addresses inconsistencies and errors identified since the publication of Version 3.0 in June 2016. The ArchiMate Specification supports modeling throughout the TOGAF® Architecture Development Method (ADM). New features in Version 3 include elements for modeling the enterprise at a strategic level, such as capability, resource, and outcome. It also includes support to model the physical world of materials and equipment. Furthermore, the

consistency and structure of the language have been improved, definitions have been aligned with other standards, and its usability has been enhanced in various other ways. The intended audience is threefold: • Enterprise Architecture practitioners, such as architects (e.g., business, application, information, process, infrastructure, and, obviously, enterprise architects), senior and operational management, project leaders, and anyone committed to work within the reference framework defined by the Enterprise Architecture. • Those who intend to implement the ArchiMate language in a software tool; they will find a complete and detailed description of the language in this book. • The academic community, on which we rely

for amending and improving the language, based on state-of-the-art research results in the Enterprise Architecture field.

Advances in Enterprise Engineering XVII
Morgan Kaufmann

Open Agile Architecture™, a standard of The Open Group, offers an approach to architect at scale with agility. It provides guidance and best practices for Enterprise Architects seeking to transition into Agile and Digital contexts. Empowering an Enterprise to Succeed with its Digital-Agile Transformation Agile teams drive the enterprise's Digital Transformation by inventing new business models, delivering superior customer experiences, developing digital products, and architecting highly-automated operating systems. The Open

Agile Architecture Standard was designed keeping the needs of all business stakeholders in mind: Business Leaders - to drive the enterprise's Digital and Agile change journey Enterprise Architects - to extend their scope of influence in an Agile at scale world Product Managers - to help transform customer experience, innovate products, and generate growth Product Owners - to accelerate their transformation from managing feature backlogs to steering value delivery Operations Managers - to enable them to leverage Lean and automation to generate sustainable competitive advantages Software Engineers - to leverage the power of digital technologies to co-innovate with the business The more Agile the enterprise, the faster the learning cycles,

and faster learning cycles translate to shorter time-to-market resulting in more agility. By adopting an Open Agile Architecture approach, your organization can capitalize on this accelerated learning cycle, meaning your Agile and Digital capabilities continuously and simultaneously co-create one another.

Principles of Transaction Processing

Springer Science & Business Media

How to navigate your strategy journey in business using a five model framework and methodology that teaches you to play 'SMART' and 'win' in the game of business and career ascension.

Archimate® 2 Certification Study Guide

Springer Science & Business Media

Learn the importance of architectural and design patterns in producing and sustaining next-generation IT and

business-critical applications with this guide. About This Book Use patterns to tackle communication, integration, application structure, and more Implement modern design patterns such as microservices to build resilient and highly available applications Choose between the MVP, MVC, and MVVM patterns depending on the application being built Who This Book Is For This book will empower and enrich IT architects (such as enterprise architects, software product architects, and solution and system architects), technical consultants, evangelists, and experts. What You Will Learn Understand how several architectural and design patterns work to systematically develop multitier web, mobile, embedded, and cloud applications Learn object-oriented and

component-based software engineering principles and patterns Explore the frameworks corresponding to various architectural patterns Implement domain-driven, test-driven, and behavior-driven methodologies Deploy key platforms and tools effectively to enable EA design and solutioning Implement various patterns designed for the cloud paradigm In Detail Enterprise Architecture (EA) is typically an aggregate of the business, application, data, and infrastructure architectures of any forward-looking enterprise. Due to constant changes and rising complexities in the business and technology landscapes, producing sophisticated architectures is on the rise. Architectural patterns are gaining a lot of attention these days. The book is divided

in three modules. You'll learn about the patterns associated with object-oriented, component-based, client-server, and cloud architectures. The second module covers Enterprise Application Integration (EAI) patterns and how they are architected using various tools and patterns. You will come across patterns for Service-Oriented Architecture (SOA), Event-Driven Architecture (EDA), Resource-Oriented Architecture (ROA), big data analytics architecture, and Microservices Architecture (MSA). The final module talks about advanced topics such as Docker containers, high performance, and reliable application architectures. The key takeaways include understanding what architectures are, why they're used, and how and where architecture, design, and

integration patterns are being leveraged to build better and bigger systems. Style and Approach This book adopts a hands-on approach with real-world examples and use cases.

Data Parallel C++ R&a

A quick start guide to learning essential software architecture tools, frameworks, design patterns, and best practices Key FeaturesApply critical thinking to your software development and architecture practices and bring structure to your approach using well-known IT standardsUnderstand the impact of cloud-native approaches on software architectureIntegrate the latest technology trends into your architectural designsBook Description Are you a seasoned developer who likes to add value to a project beyond just writing

code? Have you realized that good development practices are not enough to make a project successful, and you now want to embrace the bigger picture in the IT landscape? If so, you're ready to become a software architect; someone who can deal with any IT stakeholder as well as add value to the numerous dimensions of software development. The sheer volume of content on software architecture can be overwhelming, however. Software Architecture for Busy Developers is here to help. Written by Stephane Eyskens, author of The Azure Cloud Native Mapbook, this book guides you through your software architecture journey in a pragmatic way using real-world scenarios. By drawing on over 20 years of consulting experience, Stephane will help you understand the

role of a software architect, without the fluff or unnecessarily complex theory. You'll begin by understanding what non-functional requirements mean and how they concretely impact target architecture. The book then covers different frameworks used across the entire enterprise landscape with the help of use cases and examples. Finally, you'll discover ways in which the cloud is becoming a game changer in the world of software architecture. By the end of this book, you'll have gained a holistic understanding of the architectural landscape, as well as more specific software architecture skills. You'll also be ready to pursue your software architecture journey on your own - and in just one weekend! What you will learn

Understand the roles and responsibilities of a software architect
 Explore enterprise architecture tools and frameworks such as The Open Group Architecture Framework (TOGAF) and ArchiMate
 Get to grips with key design patterns used in software development
 Explore the widely adopted Architecture Tradeoff Analysis Method (ATAM)
 Discover the benefits and drawbacks of monoliths, service-oriented architecture (SOA), and microservices
 Stay on top of trending architectures such as API-driven, serverless, and cloud native
 Who this book is for
 This book is for developers who want to move up the organizational ladder and become software architects by understanding the broader application landscape and discovering how large enterprises deal with software

architecture practices. Prior knowledge of software development is required to get the most out of this book.

Introduction to Solution Architecture Van Haren

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.

[Mastering Archimate Edition III](#) Springer Nature

ArchiMate®, an Open Group Standard, is an open and independent modeling

language for Enterprise Architecture that is supported by different tool vendors and consulting firms. ArchiMate provides instruments to enable enterprise architects to describe, analyze, and visualize the relationships among business domains in an unambiguous way. This book provides the official specification of ArchiMate 2.0 from The Open Group. ArchiMate 2.0 is an upwards-compatible evolution from ArchiMate 1.0 adding new features, as well as addressing usage feedback. The ArchiMate 2.0 Standard supports modeling throughout the TOGAF® Architecture Development Method (ADM). The intended audience is threefold: Enterprise Architecture practitioners, such as architects (e.g., application, information, process,

infrastructure, and, obviously, enterprise architects), senior and operational management, project leaders, and anyone committed to work within the reference framework defined by the Enterprise Architecture. Those who intend to implement ArchiMate in a software tool; they will find a complete and detailed description of the language in this book. The academic community, on which we rely for amending and improving the language based on state-of-the-art research results in the architecture field.

The Practice of Enterprise Modeling

Packt Publishing Ltd

Solution architecture is concerned with the design and definition of (information technology) solutions so they can be subsequently implemented, used,

operated and supported securely and efficiently. The solution exists to operate business processes in order to achieve business objectives, meet a business need and deliver business value.

Solution architecture is concerned with engaging with the originating business function looking for the solution to create a solution vision and design a solution that meet their needs, subject to a range of constraints such as cost and affordability, time to deliver and organisational standards. The solution must exist as a coherent whole. Solutions must be designed consistently across the solution landscape and make optimum use of appropriate technologies. Solution architecture must focus on creating usable and useful solutions. Solution architecture must

have a standard reliable approach to business engagements and the design of solution that emerge from them. Solution architecture must work collaboratively with other information technology functions - other architecture roles, business analysis and service management - to ensure continuity along the solution delivery journey. Effective solution architecture involves: -Have a depth and breadth of solution delivery and technical experience to be able to identify solution design options quickly-Being able to understand the detail of the solution while maintaining a view of the wider (and higher) context of the business need for the solution and being able to explain both these views of sets of information-Being able to communicate

effectively with all parties - technical and business - involved in the solution design and delivery journey, assist with decision-making, be realistic and make appropriate compromises and design choices in order to create the best solution design-Being able to apply technology appropriately and with selective innovation (and the desire to constantly acquire new knowledge and ways of applying technology)-Being involved in the solution delivery journey along its entire length-Being able to be the solution advocate and subject matter expert This book is aimed at a variety of potential readers: -Existing solution architects who want to have a more theoretical and a broader understanding of their role-Existing or new managers of solution architecture functions who want

to create a high-performing practice within their organisations and who want to articulate the benefits and value solution architect can contribute to the information technology function and the wider business and the potential it can offer to the business organisation- Mangers of information technology functions who want to understand what solution architecture is, where it fits into the wider architecture context and disciplines and solution delivery and operation and the value it can contribute to both the information technology function and the wider business-Other information technology architects who want to understand how the architecture disciplines can work together to deliver value-Business analysts and managers of business analysis functions who want

to understand how they can work more closely with the solution architecture function in order to provide the business with a better overall service-Other information technology personnel who want to move into solution architecture and who want to understand what it is- Consulting organisations and individuals who want to develop and offer value-adding solution architecture services
Value Proposition Design Apress
For readers of "Delivering Happiness" and "The New Gold Standard"--a revolutionary approach to understanding and mastering the customer experience from Forrester Research.

A Modern Enterprise Architecture

Approach John Wiley & Sons

Build robust and scalable Java applications by learning how to

implement every aspect of software architecture. Key Features: Understand the fundamentals of software architecture and build production-grade applications in Java. Make smart architectural decisions with comprehensive coverage of various architectural approaches from SOA to microservices. Gain an in-depth understanding of deployment considerations with cloud and CI/CD pipelines. Book Description: Well-written software architecture is the core of an efficient and scalable enterprise application. Java, the most widespread technology in current enterprises, provides complete toolkits to support the implementation of a well-designed architecture. This book starts with the fundamentals of architecture and takes you through the basic components of

application architecture. You'll cover the different types of software architectural patterns and application integration patterns and learn about their most widespread implementation in Java. You'll then explore cloud-native architectures and best practices for enhancing existing applications to better suit a cloud-enabled world. Later, the book highlights some cross-cutting concerns and the importance of monitoring and tracing for planning the evolution of the software, foreseeing predictable maintenance, and troubleshooting. The book concludes with an analysis of the current status of software architectures in Java programming and offers insights into transforming your architecture to reduce technical debt. By the end of this

software architecture book, you'll have acquired some of the most valuable and in-demand software architect skills to progress in your career. What you will learn

Understand the importance of requirements engineering, including functional versus non-functional requirements

Explore design techniques such as domain-driven design, test-driven development (TDD), and behavior-driven development

Discover the mantras of selecting the right architectural patterns for modern applications

Explore different integration patterns

Enhance existing applications with essential cloud-native patterns and recommended practices

Address cross-cutting considerations in enterprise applications regardless of architectural choices and application type

Who this

book is for This book is for Java software engineers who want to become software architects and learn everything a modern software architect needs to know. The book is also for software architects, technical leaders, vice presidents of software engineering, and CTOs looking to extend their knowledge and stay up to date with the latest developments in the field of software architecture.

Masterclass Enterprise Architecture Management John Wiley & Sons

Third edition of the much praised introduction and in-depth book that teaches the leading enterprise architecture modeling language ArchiMate 3. Includes explanations for many subjects that are modeled, such as SOA/API, ESB, Bitcoin/blockchain,

Infrastructure as Code, etc. Also contains a BPMN primer. With 380 diagrams.

The Myth of Artificial Intelligence

Harvard Business Press

Enterprises, from small to large, evolve continuously. As a result, their structures are transformed and extended continuously. Without some means of control, such changes are bound to lead to an overly complex, uncoordinated and heterogeneous environment that is hard to manage and hard to adapt to future changes. Enterprise architecture principles provide a means to direct transformations of enterprises. As a consequence, architecture principles should be seen as the cornerstones of any architecture. In this book, Greefhorst and Proper focus on the role of architecture principles. They provide

both a theoretical and a practical perspective on architecture principles. The theoretical perspective involves a brief survey of the general concept of principle as well as an analysis of different flavors of principles.

Architecture principles are regarded as a specific class of normative principles that direct the design of an enterprise, from the definition of its business to its supporting IT. The practical perspective on architecture principles is concerned with an approach to the formulation of architecture principles, as well as their actual use in organizations. To illustrate their use in practice, several real-life cases are discussed, an application of architecture principles in TOGAF is included, and a catalogue of example architecture principles is provided. With

the 15th IFIP Working Conference on the Practice of Enterprise Modeling, PoEM 2022, which took place in London, UK, during November 23-25, 2022. PoEM offers a forum for sharing experiences and knowledge between the academic community and practitioners from industry and the public sector. This year the theme of the conference is Enterprise Modeling and Model-based Development and Engineering. The 15 full papers presented in this volume were carefully reviewed and selected from a total of 45 submissions. They were organized in topical sections as follows: models in information system development; modeling enterprise architectures; modeling capabilities and ecosystems; DSML and meta-modeling; and participatory modeling.

Chess and the Art of Enterprise Architecture Houghton Mifflin Harcourt
The trendsetting architect Rem Koolhaas has carried it out to perfection, whereas the next generation of international stars refined it even more, giving us the unconventional presentation of designs and ideas in the form of diagrams. This method of presentation is easy to understand when dealing with the client and can be communicated internationally, beyond language and cultural barriers - a product of our globalised world. However, diagrams are now much more than explanations and form their own discipline in creative professions connected to design and construction. What looks simple is in fact a complex matter. This title in the series Construction and Design Manual is in its

second edition and assembles 384 pages of diagrams by avant-garde architects and designers who specialise in public space, landscape architecture and urban planning.

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