
Technical Architect Vs Solution

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Becoming a Salesforce Certified Technical Architect John Wiley & Sons

The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns

of Enterprise Application Architecture is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important

architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include · Dividing an enterprise application into layers · The major approaches to organizing business logic · An in-depth treatment of mapping between objects and relational databases · Using Model-View-Controller to organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces

Cracking the IT Architect Interview Springer Science & Business Media
Take a deep dive into the architectural approach, best practices, and key considerations needed to comprehend, evaluate, and design an efficient, scalable, and sustainable Salesforce-based solution. This book takes a comprehensive look at the seven architectural domains that must be considered when architecting a Salesforce-based solution and equips you to develop the artifacts needed for an end-to-end enterprise architecture blueprint for Salesforce implementation and DevOps. This must-have handbook helps Salesforce professionals implement and manage Salesforce in their organization. You will learn Salesforce architecture: solution architecture, data architecture, security architecture, integration architecture, identity and access management architecture, and strategies that can be used for Salesforce-based mobile applications. In addition to the main architecture concepts, the book also offers industry best practices and the recommended framework for approaching, managing, delivering, and continuously improving a Salesforce solution using its Salesforce Development & Deployment Lifecycle. What You Will Learn Get a detailed overview of the Salesforce multi-tenant, metadata-driven architectural framework and the under-the-hood technology stack that supports Salesforce Know the seven architecture domains, their intricacies, and the considerations needed within each when designing a Salesforce solution Have an architectural mindset and the artifacts needed to architect an end-to-end enterprise-level implementation of Salesforce Be familiar with the most common Salesforce products, licenses, AppExchange products, and the key considerations of using

out-of-the-box declarative capabilities vs custom programmatic capabilities of Salesforce Understand data architecture design considerations that include data modeling in Salesforce, identifying and mitigating large data volume concerns, and the key considerations for data migration and data archiving strategies Understand security architecture considerations related to securing data within Salesforce and the various approaches to allow or restrict sharing and visibility from within Salesforce Understand integration architecture considerations that provide an overview of the integration patterns and the integrations solutions that can be used with Salesforce to connect Salesforce with a remote system hosted on-premises, on the cloud, or by third-party solution providers Understand identity and access management architectural considerations across the 9 stages of an identity and access management lifecycle Be aware of the strategies available to design mobile solutions with Salesforce and the options available for Salesforce mobile architecture Employ the principles of the DevOps & Development Lifecycle needed for an ideal state Salesforce implementation Who This Book Is For Professionals interested in implementing, optimizing, and architecting Salesforce solutions enterprise-wide; Salesforce implementation (SI) partners needing a detailed playbook for architecting and delivering successful Salesforce solutions; Salesforce admins, developers, and architects looking for a one-stop educational resource to mastering the Salesforce architect domains or those pursuing the Salesforce architecture domain certification exams, including the Salesforce Certified Technical Architect (CTA) board exam

Salesforce B2C Solution Architect's Handbook Cengage Learning

The authoritative guide to DAD, IBM's disciplined approach to applying agile practices in enterprise scale projects. Integrate enterprise discipline with powerful, widely-used agile practices into a proven solution for the entire software lifecycle. Scale agile strategies for complex development challenges, without compromising agile's advantages.

Becoming an Agile Software Architect CRC Press

Enterprise Architecture is the discipline of managing the

complexities of the Business-IT landscape. It has been around since the 1980's, when for the first time computers were connected in networks, and the already serious (and unsolved) problem of the complexity of computer programs for relatively simple business needs turned into the huge problem of large networks of them in complex business landscapes. In spite of many 'best practices' and 'frameworks' that have been introduced, Enterprise Architecture is not a great success. After thirty years, we still have the same problems. Chaos is still everywhere. Projects still fail far too often. In this book, (hidden) assumptions behind the existing approaches to enterprise architecture are challenged, and a more realistic perspective that helps us battle the complexities and unpredictabilities of today's Business-IT landscapes is described. Practical suggestions about enterprise architecture governance and products, based on real-world experience with the described approach, complete the book. From general management to IT professionals, everyone who is confronted with the problem of managing Business-IT landscapes can profit from the insights this book offers. No specialist prior knowledge is required. Gerben Wierda is author of *Mastering ArchiMate*, and was, amongst other things, Lead Architect of the Judiciary in The Netherlands, Lead Architect of APG Asset Management, and is now Team Coordinator Architecture & Design at APG. He holds an M.Sc in Physics from the University of Groningen and an MBA from RSM Erasmus, Rotterdam.

Solutions Architect's Handbook - Second Edition "O'Reilly Media, Inc."

There are no easy decisions in software architecture. Instead, there are many hard parts--difficult problems or issues with no

best practices--that force you to choose among various compromises. With this book, you'll learn how to think critically about the trade-offs involved with distributed architectures. Architecture veterans and practicing consultants Neal Ford, Mark Richards, Pramod Sadalage, and Zhamak Dehghani discuss strategies for choosing an appropriate architecture. By interweaving a story about a fictional group of technology professionals--the Sysops Squad--they examine everything from how to determine service granularity, manage workflows and orchestration, manage and decouple contracts, and manage distributed transactions to how to optimize operational characteristics, such as scalability, elasticity, and performance. By focusing on commonly asked questions, this book provides techniques to help you discover and weigh the trade-offs as you confront the issues you face as an architect. Analyze trade-offs and effectively document your decisions Make better decisions regarding service granularity Understand the complexities of breaking apart monolithic applications Manage and decouple contracts between services Handle data in a highly distributed architecture Learn patterns to manage workflow and transactions when breaking apart applications

Choose your WoW - Second Edition Packt Publishing Ltd

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

Software Architecture: The Hard Parts John Wiley & Sons

This book provides a method to plan, develop, validate, or evolve the design of an enterprise architecture function so that it fully meets the organization's needs. The reader will benefit from this book in two ways. First, it provides a structured overview and orientation to the subject of architecture from an architecture function perspective. Second, it guides through the process of planning, building, and operating your own architecture organization based on a generic architecture function blueprint presented in the form of a pattern language offering a structured means for navigating, contextualizing, combining, and composing the architecture function patterns. The book is structured in six chapters. Chapter 1 "Introduction" explains the starting position and objectives of the book and introduces key concepts that will be explained further in subsequent chapters. Chapter 2 "Architecture Function Pattern Language" introduces the concepts of pattern, pattern catalogue, pattern topology, and ontology and explains how these concepts are combined to form a pattern language for planning, designing, and operating an architecture function. Next, Chapter 3 "Architecture Function – Context" introduces concepts that are crucial for understanding the challenges that an architecture function faces and presents a generic schema for the business organizations and value chain. Chapter 4 "Architecture Function – Challenge" looks at an architecture function from a black box perspective and outlines the expectations and requirements that companies place on architecture organizations. It discusses the building blocks of an architecture function, the

services it provides along the enterprise value chain, and the quality attributes that enterprises expect from their functions. Chapter 5 "Architecture Function – Constitution" then shifts from a black-box perspective to a white-box perspective and outlines the generic design of an architecture function in order to realize functional and quality-related requirements. Chapter 6 "Pattern Catalogue" eventually introduces the pattern catalogue with a total of 48 architecture function patterns. These patterns suggest designs for collaboration between the architecture function and enterprise organizations, for the elaboration and development of enterprise services along the enterprise value chain, or for aligning architecture governance with enterprise governance. The book is intended for a broad readership, including enterprise, domain, and solution architects, lecturers and students, and anyone else interested in understanding the value proposition, responsibilities, outcomes, methods, and practices of architecture functions. It introduces the basic concepts and theories needed to understand the pattern language presented and the patterns it summarizes.

Enterprise Architecture Patterns Addison-Wesley

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.

AWS for Solutions Architects Packt Publishing Ltd

Throughout its many editions, *The Architect in Practice* has remained a leading textbook used in the education of architects. While the content of the book has developed, the message and philosophy has remained constant: to provide students of architecture and young practitioners with a readable guide to the profession, outlining an architect's duties to their client and contractor, the key aspects of running a building contract, and the essentials of management, finance and drawing office procedure. The eleventh edition follows in that tradition. The text has been brought up to date to ensure it follows the new RIBA Plan of Work 2013 as the guide to the architect's workflow. In addition, a number of changes to standard forms of contract were made with the publication of the JCT 2011 suite of contracts, and the RIBA Standard Form for the Appointment of an Architect 2010 (2012 Revision). These new forms are fully covered. In addition, the opportunity has been taken to reorganise the layout so that the content flows in a way that is more consistent with current architectural practice, and to deal with the increasing use of BIM. The eleventh edition of *The Architect in Practice* continues to provide the guidance and advice all students and practising architects need in the course of their studies and in their profession.

The Software Architect Elevator Packt Publishing Ltd

Design and build high-performance, secure, and scalable Salesforce solutions to meet business demands and gain practical experience using real-world scenarios by creating engaging end-to-end solution presentations

Key Features

- Learn common integration, data migration, and security patterns for designing scalable and reliable solutions on the Salesforce Lightning platform
- Build an end-to-end delivery framework pipeline for delivering successful projects within specified timelines
- Gain access to an exclusive book club of skilled Salesforce professionals, to discuss ideas, best practices, and share experiences of designing modern solutions using Salesforce

Book Description

Salesforce Certified Technical Architect (CTA) is the ultimate certification to validate your knowledge and skills when it comes to designing and building high-performance technical solutions on the Salesforce platform. The CTA certificate is granted after successfully passing the CTA review board exam, which tests your platform expertise and soft skills for communicating your solutions and vision. You'll start with the core concepts that every architect should master, including data lifecycle, integration, and security, and build your aptitude for creating high-level technical solutions. Using real-world examples, you'll explore essential topics such as selecting systems or components for your solutions, designing scalable and secure Salesforce architecture, and planning the development lifecycle and deployments. Finally, you'll work on two full mock scenarios that simulate the review board exam, helping you learn how to identify requirements, create a draft solution, and combine all the elements together to create an engaging story to present in front of the board or to a client in real life. By the end of this

Salesforce book, you ' ll have gained the knowledge and skills required to pass the review board exam and implement architectural best practices and strategies in your day-to-day work.

What you will learn

- Explore data lifecycle management and apply it effectively in the Salesforce ecosystem
- Design appropriate enterprise integration interfaces to build your connected solution
- Understand the essential concepts of identity and access management
- Develop scalable Salesforce data and system architecture
- Design the project environment and release strategy for your solution
- Articulate the benefits, limitations, and design considerations relating to your solution
- Discover tips, tricks, and strategies to prepare for the Salesforce CTA review board exam

Who this book is for

This book is for Salesforce architects who want to become certified technical architects by learning how to design secure and scalable technical solutions for their organizations. A solid understanding of the Salesforce platform is required, ideally combined with 3 to 5 years of practical experience as an application architect, system architect, enterprise architect, or solution architect.

Table of Contents

- Starting Your Journey as a CTA
- Core Architectural Concepts - Data
- Core Architectural Concepts - Integration and Cryptography
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- Developing a Scalable System Architecture
- Formulating a Secure Architecture in Salesforce
- Designing a Scalable Salesforce Data Architecture
 - Creating a Lean Solution Architecture
 - Forging an Integrated Solution
- Development Life Cycle and Deployment Planning
- Communicating and Socialising Your Solution

Practice the Review Board - First Mock (N.B. Please use the Look Inside option to see further chapters)

Chess and the Art of Enterprise Architecture Packt Publishing Ltd

Become equipped with the principles, knowledge, practices, and tools need to assume a leadership role in an organization. From Analyst to Leader: Elevating the Role of the Business Analyst uncovers the unique challenges for the business analyst to transition from a support role to a central leader serving as change agent, visionary, and credible leader.

Agile Software Architecture Packt Publishing Ltd

Build highly secure and scalable machine learning platforms to support the fast-paced adoption of machine learning solutions

Key Features

- Explore different ML tools and frameworks to solve large-scale machine learning challenges in the cloud
- Build an efficient data science environment for data exploration, model building, and model training
- Learn how to implement bias detection, privacy, and explainability in ML model development

Book Description

When equipped with a highly scalable machine learning (ML) platform, organizations can quickly scale the delivery of ML products for faster business value realization. There is a huge demand for skilled ML solutions architects in different industries, and this handbook will help you master the design patterns, architectural considerations, and the latest technology insights you'll need to become one. You'll start by understanding ML fundamentals and how ML can be applied to solve real-world business problems. Once you've explored a few leading problem-solving ML algorithms, this book will help you tackle data management and get the most out of ML libraries such as TensorFlow and PyTorch. Using open source technology such as Kubernetes/ KubeFlow to build a data science environment and ML pipelines will be covered next, before moving on to building an enterprise ML architecture using Amazon Web Services (AWS). You'll also learn about security and governance considerations, advanced ML engineering techniques, and how to apply bias detection, explainability, and privacy in ML model development. And finally, you'll get acquainted with AWS AI services and their applications in real-world use cases. By the

end of this book, you'll be able to design and build an ML platform to support common use cases and architecture patterns like a true professional. What you will learn

- Apply ML methodologies to solve business problems
- Design a practical enterprise ML platform architecture
- Implement MLOps for ML workflow automation
- Build an end-to-end data management architecture using AWS
- Train large-scale ML models and optimize model inference latency
- Create a business application using an AI service and a custom ML model
- Use AWS services to detect data and model bias and explain models

Who this book is for This book is for data scientists, data engineers, cloud architects, and machine learning enthusiasts who want to become machine learning solutions architects. You'll need basic knowledge of the Python programming language, AWS, linear algebra, probability, and networking concepts before you get started with this handbook.

Salesforce Architect's Handbook Artech House

This book will show you how to create robust, scalable, highly available and fault-tolerant solutions by learning different aspects of Solution architecture and next-generation architecture design in the Cloud environment.

Architecting Cloud Computing Solutions Packt Publishing Ltd

Accelerating Business and Mission Success with Cloud Computing. Key Features

- A step-by-step guide that will practically guide you through implementing Cloud computing services effectively and efficiently.
- Learn to choose the most ideal Cloud service model, and adopt appropriate Cloud design considerations for your organization.
- Leverage Cloud computing methodologies to successfully develop a cost-effective Cloud environment successfully.

Book Description Cloud adoption is a core component of digital transformation. Scaling the IT environment, making it resilient, and reducing costs are what organizations want. Architecting Cloud Computing Solutions presents and explains critical Cloud solution design considerations and technology decisions required to choose and deploy the right Cloud service and deployment models, based on your business and technology service requirements. This book starts with the fundamentals of cloud computing and its architectural concepts. It then walks you through Cloud service models (IaaS, PaaS, and SaaS), deployment models (public, private, community, and hybrid) and implementation options (Enterprise, MSP, and CSP) to explain and describe the key considerations and challenges organizations face during cloud migration. Later, this book delves into how to leverage DevOps, Cloud-Native, and Serverless architectures in your Cloud environment and presents industry best practices for scaling your Cloud environment. Finally, this book addresses (in depth) managing essential cloud technology service components such as data storage, security controls, and disaster recovery. By the end of this book, you will have mastered all the design considerations and operational trades required to adopt Cloud services, no matter which cloud service provider you choose. What you will learn

- Manage changes in the digital transformation and cloud transition process
- Design and build architectures that support specific business cases
- Design, modify, and aggregate baseline cloud architectures
- Familiarize yourself with cloud application security and cloud computing security threats
- Design and architect small, medium, and large cloud computing solutions

Who this book is for If you are an IT Administrator, Cloud Architect, or a Solution Architect keen to benefit from cloud adoption for your organization, then this book is for you. Small business owners, managers, or consultants will

also find this book useful. No prior knowledge of Cloud computing is needed.

Enterprise Architecture Function Packt Publishing

Apply cloud design patterns to overcome real-world challenges by building scalable, secure, highly available, and cost-effective solutions

Key Features

- Apply AWS Well-Architected Framework concepts to common real-world use cases
- Understand how to select AWS patterns and architectures that are best suited to your needs
- Ensure the security and stability of a solution without impacting cost or performance

Book Description One of the most popular cloud platforms in the world, Amazon Web Services (AWS) offers hundreds of services with thousands of features to help you build scalable cloud solutions; however, it can be overwhelming to navigate the vast number of services and decide which ones best suit your requirements. Whether you are an application architect, enterprise architect, developer, or operations engineer, this book will take you through AWS architectural patterns and guide you in selecting the most appropriate services for your projects.

AWS for Solutions Architects is a comprehensive guide that covers the essential concepts that you need to know for designing well-architected AWS solutions that solve the challenges organizations face daily. You'll get to grips with AWS architectural principles and patterns by implementing best practices and recommended techniques for real-world use cases. The book will show you how to enhance operational efficiency, security, reliability, performance, and cost-effectiveness using real-world examples. By the end of this AWS book, you'll have gained a clear understanding of how to design

AWS architectures using the most appropriate services to meet your organization's technological and business requirements.

What you will learn

- Rationalize the selection of AWS as the right cloud provider for your organization
- Choose the most appropriate service from AWS for a particular use case or project
- Implement change and operations management
- Find out the right resource type and size to balance performance and efficiency
- Discover how to mitigate risk and enforce security, authentication, and authorization
- Identify common business scenarios and select the right reference architectures for them

Who this book is for This book is for application and enterprise architects, developers, and operations engineers who want to become well-versed with AWS architectural patterns, best practices, and advanced techniques to build scalable, secure, highly available, and cost-effective solutions in the cloud. Although existing AWS users will find this book most useful, it will also help potential users understand how leveraging AWS can benefit their organization.

SharePoint 2010 Enterprise Architect's Guidebook Packt Publishing Ltd

West's COMPTIA CLOUD+ GUIDE TO CLOUD

COMPUTING, 2nd Edition, equips students and professionals interested in mastering fundamental, vendor-independent cloud computing concepts. Fully updated content maps to the CompTIA Cloud+ (CVO-003) exam objectives. The new exam has less emphasis on physical host configuration and more emphasis on cloud infrastructure, management and security. Each module in the second edition is packed with enriched features that provide the most effective and durable learning experience, such

as self-check questions, group activities and capstone projects that enable learners to strengthen their new skills and knowledge through real design and deployment scenarios. In addition, learners have the opportunity to work with three popular cloud platforms: AWS (Amazon Web Services), Microsoft Azure and GCP (Google Cloud Platform). Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Building Evolutionary Architectures Berrett-Koehler Publishers

The way in which architectural decisions are made changes when more agile development methods are used. This chapter focuses on architectural decisions and how they are made in industrial settings. From our literature research and experience, we have constructed three axes on which the architectural decision process of projects or companies can be projected. We evaluate this framework with five industrial case studies in which we have participated. In all of the cases, the differences between two points in time (phases) were evaluated. These differences helped us identify what aspects influence the efficiency of the project/company. The presented Triple-A Framework can be used in other projects to help locate places where the architectural process can be improved when the agility of a project changes.

Clean Architecture Packt Publishing

Orchestrate data architecting solutions using Java and related technologies to evaluate, recommend and present the most suitable solution to leadership and clients Key Features Learn how to adapt to the ever-evolving data architecture technology landscape Understand how to choose the best suited technology, platform, and architecture to realize effective business value Implement effective data security and governance principles Book Description Java architectural patterns and tools help architects to build

reliable, scalable, and secure data engineering solutions that collect, manipulate, and publish data. This book will help you make the most of the architecting data solutions available with clear and actionable advice from an expert. You'll start with an overview of data architecture, exploring responsibilities of a Java data architect, and learning about various data formats, data storage, databases, and data application platforms as well as how to choose them. Next, you'll understand how to architect a batch and real-time data processing pipeline. You'll also get to grips with the various Java data processing patterns, before progressing to data security and governance. The later chapters will show you how to publish Data as a Service and how you can architect it. Finally, you'll focus on how to evaluate and recommend an architecture by developing performance benchmarks, estimations, and various decision metrics. By the end of this book, you'll be able to successfully orchestrate data architecture solutions using Java and related technologies as well as to evaluate and present the most suitable solution to your clients. What you will learn Analyze and use the best data architecture patterns for problems Understand when and how to choose Java tools for a data architecture Build batch and real-time data engineering solutions using Java Discover how to apply security and governance to a solution Measure performance, publish benchmarks, and optimize solutions Evaluate, choose, and present the best architectural alternatives Understand how to publish Data as a Service using GraphQL and a REST API Who this book is for Data architects, aspiring data architects, Java developers and anyone who wants to develop or optimize scalable data architecture solutions using Java will find this book useful. A basic understanding of data architecture and Java programming is required to get the best from this book.

Software Architecture in Practice Packt Publishing Ltd

Consistent success does not happen by chance. It occurs by having an understanding of what is happening in the environment and then having the skills to execute the necessary changes. Ideal for project, IT, and systems development managers, IT Best Practices: Management, Teams, Quality, Performance, and Projects details the skills, knowledge, and a

Scalable Data Architecture with Java Addison-Wesley

Software services are established as a programming concept, but their impact on the overall architecture of enterprise IT and business operations is not well-understood. This has led to problems in deploying SOA, and some disillusionment. The SOA Source Book adds to this a collection of reference material for SOA. It is an invaluable resource for enterprise architects working with SOA. The SOA Source Book will help enterprise architects to use SOA effectively. It explains: What SOA is How to evaluate SOA features in business terms How to model SOA How to use The Open Group Architecture Framework (TOGAF™) for SOA SOA governance This book explains how TOGAF can help to make an Enterprise Architecture. Enterprise Architecture is an approach that can help management to understand this growing complexity.