Role Solutions Architect

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AWS Certified Solutions Architect Study Guide with Online Labs Ben Piper 2021-04-13 Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified Solutions Architect Study Guide to give you the same experience working in these labs as you prepare for the Certified Solutions Architect Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS Solutions Architect. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS Cloud. AWS has been the frontrunner in cloud computing products and services and the UPDATED AWS Certified Solutions Architect Study Guide, Third Edition, for the Associate SAA-C02 Exam will get you fully prepared. This study guide covers exam concepts, and provides key review of exam topics, including: Designing resilient architectures Designing high-performing architectures Designing secure applications Designing cost-optimized architectures If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career. Readers will have access to Sybex's superior online interactive learning environment and test bank, including hundreds of test questions, practice exams, electronic flashcards, and a glossary of key terms. And included with this version of the book, XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months of unlimited access to XtremeLabs AWS Certified Solutions Architect Labs with 12 unique lab modules based on the book.

Azure for Architects Ritesh Modi 2017-10-20 Your one stop guide to making the most out of Azure Cloud About This Book Get familiar with the different design patterns available in Microsoft Azure Develop Azure cloud architecture and a pipeline management system Get to know the security best practices for your Azure deployment Who This Book Is For If you are Cloud Architects, DevOps Engineers, or developers who want to learn key architectural aspects of the Azure Cloud platform, then this book is for you. Prior basic knowledge of the Azure Cloud platform is good to have. What You Will Learn Familiarize yourself with the components of the Azure Cloud platform Understand the cost management for Azure solutions In Detail Over the years, Azure cloud services has grown quickly, and the number of organizations adopting Azure for their cloud services is also gradually increasing. Leading industry giants are finding that Azure fulfills their extensive cloud requirements. This book will guide you through all the important and tough decision-making aspects involved in architecturing a Azure public cloud for your organization. The book starts with an extensive introduction to all the categories of designs available with Azure. These design patterns focus on different aspects of cloud such as high availability, data management, and so on. Gradually, we move on to various aspects such as building your cloud structure and architecture. It will also include a brief description about different types of services provided by Azure, such as Azure functions and Azure Analytics, which can prove beneficial for an organization. This book will cover each and every aspect and function required to develop a Azure cloud based on your organizational requirements. By the end of this book, you will be in a position to develop a full-fledged Azure cloud. Style and approach This hands-on guide to the Azure Cloud platform covers different architectural concepts and implementations necessary for any enterprise scale deployment.

Agile Software Requirements Dean Leffingwell 2010-12-27 “We need better approaches to understanding and managing software requirements, and Dean provides them in this book. He draws ideas from three very useful intellectual pools: classical management practices, Agile methods, and lean product development. By combining the strengths of these three approaches, he has produced something that works better than any one in isolation.”—From the Foreword by Don Reinertsen, President of Reinertsen & Associates; author of Managing the Design Factory; and leading expert on rapid product development.

Effective requirements discovery and analysis is a critical best practice for serious application development. Until now, however, requirements and Agile methods have rarely coexisted peacefully. For many enterprises considering Agile approaches, the absence of effective and scalable Agile requirements processes has been a showstopper for Agile adoption. In Agile Software Requirements, Dean Leffingwell shows exactly how to create effective requirements in Agile environments. Part I presents the “big picture” of Agile requirements in the enterprise, and describes an overall process model for Agile requirements at the project team, program, and portfolio levels Part II describes a simple and lightweight, yet comprehensive model that Agile project teams can use to manage requirements Part III shows how to develop Agile requirements for complex systems that require the cooperation of multiple teams Part IV guides enterprises in developing Agile requirements for ever-larger “systems of systems,” application suites, and product portfolios

This book will help you leverage the benefits of Agile without sacrificing the value of effective requirements discovery and analysis. You’ll find proven solutions you can apply right now—whether you’re a software developer or tester, executive, project/program manager, architect, or team leader.

Introduction to Solution Architecture Alan McSweeney 2019-02-20 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 combining the existing 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 create. This book could also be a great resource for solution architects.white and enterprise architects, level job roles that heavily rely on Salesforce proficiency. It's primarily written for B2C commerce architects, application architects, integration architects, as well as system architects, enterprise architects, Salesforce architects, and CTO teams looking to benefit from a deeper understanding of this platform. Before you get started, you'll need a solid understanding of data integration, APIs, and connected systems, along with knowledge of the fundamentals of business-to-consumer (B2C) customer experiences.

**Technology Strategy Patterns**

Eben Hewitt 2018-10-15

Technologists who want their ideas heard, understood, and funded are often told to speak the language of business—without really knowing what that is. This book’s toolkit provides architects, product managers, technology managers, and executives with a shared language— in the form of repeatable, practical patterns and templates—to produce great technology strategies. Author Eben Hewitt developed 39 patterns over the course of a decade in his work as CTO, CIO, and chief architect for several global tech companies. With these proven tools, you can define, create, refine, and communicate your architecture goals, plans, and approach in a way that executives can readily understand, approve, and execute. This book covers: Architecture and strategy: Adopt a strategic architectural mindset to make a meaningful material impact Creating your strategy: Define the components of your technology strategy using proven patterns Communicating the strategy: Convey your technology strategy in a compelling way to a variety of audiences Bringing it all together: Employ patterns individually or in clusters for specific problems; use the complete framework for a comprehensive strategy

**Software Architect’s Handbook**

Joseph Ingeno 2018-08-30

A comprehensive guide to exploring software architecture concepts and implementing best practices Key Features Enhance your skills to grow your career in software architecture with a hands-on approach to software architectures using patterns and best practices Learn how software architecture relates to an organization as well as software development Methodology Book Description The Software Architect’s Handbook is a comprehensive guide to help developers, architects, and senior programmers advance their career in the software architecture domain. This book takes you through all the important concepts, right from design principles to different considerations at various stages of your career in software architecture. The book begins by covering the fundamentals, benefits, and purpose of software architecture. You will discover how software architecture relates to an organization, followed by identifying its significant quality attributes. Once you have covered the basics, you will explore design patterns, best practices, and paradigms for efficient software development. The book discusses which factors you need to consider for performance and security enhancements. You will learn to write documentation for your architectures and make appropriate decisions when considering architecture decisions. You will discover how to create software architectures that evolve as the market, business requirements, frameworks, tools, and best practices change over time. By the end of this book, you will not only have studied software architecture concepts but also built the soft skills necessary to grow in this field. What will you learn Design software architectures using patterns and best practices Explore the different considerations for designing software architecture Discover what it takes to continuously improve as a software architect Create loosely coupled systems that can support change Understand DevOps and how it affects software architecture Integrate, refactor, and re-architect legacy applications Who this book is for The Software Architect’s Handbook is for you if you are a software architect, chief technical officer (CTO), or senior developer looking to gain a firm grasp of software architecture. The AWS Solutions Architect Associates SAA-C02 Certification Practice Tests and Quizzes illustrated Etienne Noumen Solution architect is a practice of defining and describing an architecture of a system delivered in context of a specific solution and as such it may encompass description of an entire system or only its specific parts. Definition of a solution architecture is typically led by a solution architect. The AWS Certified Solutions Architect - Associate (SAA, SAA-C02, SAA-C03) exam is intended for individuals who perform in a solutions architect role. The exam validates a candidate’s ability to use AWS technologies to design solutions based on the AWS Well-Architected Framework including: Design solutions that incorporate AWS services to meet current business requirements and future projected needs Design architectures that are secure, resilient, high-performing, and cost-optimized Review existing solutions and determine improvements Become stronger in your current role or prepare to step into a new one by continuing to build the cloud solutions architecture skills companies are begging for The path to success for cloud solutions architect proficiency is only set to increase, so you can expect to see enormous ROI on any cloud learning efforts you embark on. What will you learn in this book? Design Secure Architectures Design Resilient Architectures Design High-Performing Architectures Design Cost-Optimized Architectures What are the requirements or prerequisites for reading this book? The target candidate should have at least 1 year of hands-on experience designing cloud solutions that use AWS services Who is this book for? IT Professionals, Solutions Architect, Cloud enthusiasts, Computer Science and Engineering Students, AWS...
Cloud Developer, Technology Manager and Executives, IT Project Managers What is taught in this book? AWS Certification Preparation for Solutions Architecture - Associate Level Key tools, technologies, and concepts covered • Compute • Cost management • Database • Disaster recovery • High performance • Management and governance • Microservices and component decoupling • Migration and data transfer • Networking, connectivity, and content delivery • Resiliency • Security • Serverless and event-driven design principles • Storage Some New AWS services covered: AWS Data Exchange, AWS Data Pipeline, AWS Lake Formation, Amazon Managed Streaming for Apache Kafka, Amazon AppFlow, AWS Outposts, VMware Cloud on AWS, AWS Wavelength, Amazon Neptune, Amazon Quantum Ledger Database, Amazon Timestream, AWS Amplify, Amazon Comprehend, Amazon Forecast, Amazon Fraud Detector, Amazon Kendra, AWS License Manager, Amazon Managed Grafa, Amazon Managed Service for Prometheus, AWS Proton, Amazon Elastic Transcoder, Amazon Kinesis Video Streams, AWS Application Discovery Service, AWS WAF Serverless, AWS AppSync, Architecting Cloud Computing Solutions [Kevin L. Jackson 2018-05-30 Accelerating Business and Mission Success with the Cloud: Core Concepts. Key Features A step-by-step guide that will walk 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 through Cloud service models (IaaS, PaaS, and SaaS), deployment models (public, private, community, and hybrid) and implementation options (Enterprise, MSP, and CSP) to explain various technical and business considerations and decision-making models. 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, data 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 with its 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. Solutions Architect’s Handbook [Saurabh Shrivastava 2020-03-21 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. AWS Certified Solutions Architect - Associate [VB Dev 2021-01-08 AWS Certified Solutions Architect Associate (SAA-C02) The AWS Certified Solutions Architect - Associate examination is intended for individuals who perform a solutions architect role and have one or more years of hands-on experience designing available, cost-efficient, fault-tolerant, and scalable distributed systems on AWS. Abilities validated by the certification effectively demonstrate knowledge of how to architect and deploy secure and robust applications on AWS technologies Define a solution using architectural design principles based on customer requirements Provide implementation guidance based on best practices to the organization throughout the life cycle of the project Recommended Knowledge and Experience Hands-on experience using compute, networking, storage, and database AWS services Hands-on experience with AWS deployment and management services Ability to identify and define technical requirements for an AWS-based application Ability to identify which AWS services meet a given technical requirement Knowledge of recommended best practices for building secure and reliable applications on the AWS platform An understanding of the basic architectural principles of building on the AWS Cloud An understanding of the AWS global infrastructure An understanding of network technologies as they relate to AWS An understanding of security features and tools that AWS provides and how they relate to traditional services 435+ most up-to-date and unique questionnaires verified by our extensive years of experienced experts to prepare for AWS Certified Solutions Architect - Associate (SAA-C02) exam. We pride ourselves in offering students who have easily cleared the exam with good score by practiced these questions and personal study guides. Don’t hesitate!!! Please buy the book confidently because we always update the book with current level exam questions so that you can fully prepared for the actual exam. AWS Certified Solutions Architect [Robert Karamagi 2021-07-31 The Amazon Web Services, AWS Certified Solutions Architect is among the most valuable and highly sought after cloud computing certifications in the world today. The Associate examination is intended for individuals who perform a solutions architect role and have one or more years of hands-on experience designing available, cost-efficient, fault-tolerant, and reliable applications. The exam is comprised of 65 questions; either multiple choice or multiple response, and you have 130 minutes to complete the exam. Mobilize Yourself! Robert Bogue 2002 Be everywhere-and take your office with you-with the help of MOBILIZE YOURSELF! THE MICROSOFT GUIDE TO MOBILE TECHNOLOGY. Discover how to choose the right products and services such as the Pocket PC, the Microsoft Outlook messaging and collaboration client, Microsoft Mobile Information Server, the MSNetwork of Internet services, and more to stay as productive on the road as you’d be at your desk. The book focuses on the key activities of mobile and remote workers including using e-mail, accessing corporate information, reporting data from the field, and collaborating with colleagues-and describes options for hardware, software, connectivity, and security. Throughout, the author emphasizes creating business solutions rather than explaining the arcane technical how-tos. With MOBILIZE YOURSELF!, readers find the answers they need to get down to business-no matter where their work takes them! Mobilize Yourself!
technical, solution, domain, enterprise, and chief architects to help them perform well in interview discussions and launch a successful career. The book begins by providing descriptions of architecture skills and competencies that cover the 12 key domains, including 350+ questions relating to these domains. The goal of this book is to cover all the core architectural domains. From an architect’s perspective, it is impossible to revise or learn about all these key areas without a good reference guide – this book is the solution. It shares experiences, learning, insights, and proven methodologies that will benefit practitioners, SMEs, and aspirants in the long run. This book will help you tackle the NFR domain, which is a key aspect pertaining to architecting applications. It typically takes years to understand the core concepts, fundamentals, patterns, and principles related to architecture and designs. This book is a goldmine for the typical questions asked during an interview and will help prepare you for success! Style and approach This book will help you prepare for interviews for architectural profiles by providing likely questions, explanations, and expected answers. It is an insight-rich guide that will help you develop strategic, tactical, and operational thinking for your interview.

A Solutions Architect Associate Exam Practice Questions and dumps with explanations Exam SAA-C01 Maester Books The AWS Certified Solutions Architect - Associate examination is intended for individuals who perform a solutions architect role and have one or more years of hands-on experience designing available, cost-efficient, fault-tolerant, and scalable distributed systems on AWS. Preparing for the AWS Certified Solutions Architect Associate Exam (AWS CSAA) to become an AWS Certified Solutions Architect? Here we’ve brought 500 + AWS Solutions Architect Associate Exam Questions for you so that you can prepare well for the AWS Solution Architect Associate exam. This AWS Certified Solutions Architect - Associate exam practice test of AWS Web Services has been advanced to test your knowledge before taking the official exam. Unlike other online simulation practice tests, you get an eBook version easy to read & remember these questions. You can simply rely on these 500 + questions for successfully certifying this exam. AWS Certified Solutions Architect Official Study Guide Joe Baron 2016-09-28 Validate your AWS skills. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services, and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, access to Sybex's interactive online learning environment, and much more. This official study guide, written by AWS experts, covers exam concepts, and provides key review on exam topics, including: Mapping Multi-Tier Architectures to AWS Services, such as web/app servers, firewalls, caches and load balancers. Understanding managed RDBMS through AWS RDS (MySQL, Oracle, SQL Server, Postgres, Aurora) Understanding Loose Coupling and Stateless Systems Comparing Different Consistency Models in AWS Services Understanding how AWS CloudFront can make your application more cost efficient, faster and secure Implementing Route tables, Access Control Lists, Firewalls, NAT, and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute, Networking, Storage, and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Technologies Relating to AWS Deploying and Managing Services with tools such as CloudFormation, OpsWorks and Elastic Beanstalk. Learn from the AWS subject matter experts, review with proven study tools, and apply real-world scenarios. If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career. Software Architecture in Practice Len Bass 2003 This is the eagerly-anticipated revision to one of the seminal books in the field of software architecture which clearly defines and explains the topic. Solution Architecture Foundations LOVATT 2021-08-02 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 and covers everything candidates will need to know to pass the exam. Case studies and test questions to support learning are included throughout. AWS Certified Solutions Architect Practice Exams Brett McLaughlin 2019-03-01 1,000 practice questions with answers and explanations! With five unique practice tests, covering the five AWS Certified Solutions Architect Associate Exam objective domains, PLUS one additional practice exam, AWS Certified Solutions Architect Practice Tests provides a total of 1,000 practice test questions to make sure you are prepared for exam day. Coverage of all exam objective domains includes: Design Resilient Architectures, Define Performant Architectures, Specify Secure Applications and Architectures, Design Cost-Optimized Architectures, Define Operationally Excellent Architectures. This book will help you: • Gain confidence as you prepare for the SAA-C01 exam • Ensure you are set up for success with 1,000 practice questions • When you are ready, test your knowledge with the Sybex online interactive learning environment • Get that highly desired AWS certification Prepare smarter, not harder, with Sybex's superior study tools. Solution Architect Red-Hot Career Guide: 2515 Real Interview Questions Red-Hot Careers 2018-04-08 3 of the 2515 sweeping interview questions in this book, revealed: Analytical Thinking question: Do you agree with author James Fixx, who asserts, In solving puzzles, a self-assured Solution Architect attitude is half the battle? - Organizational question: How do you decide what gets top priority when scheduling your time? - Innovation question: If you have a proposed project topic, would different players define Solution Architect sufficiently your role to the extent you can live up to and use the 2515 REAL Interview Questions in this time-tested book to demystify the entire job-search process. If you only want to use one long-trusted guidance, this is it. Assess and test yourself, then tackle and ace the interview and Solution Architect role with 2515 REAL interview questions; covering 70 interview topics including Negotiating, Customer Orientation, Career Development, Extracurricular, Initiative, Project Management, Stress Management, Leadership, Strengths and Weaknesses, and Communication...PLUS 60 MORE TOPICS... Pick up this book today to rock the interview and get your dream Solution Architect Job. Latest AWS Amazon Certified Solutions Architect - Professional SAP-C01 Exam Questions and Answers UPTODATE EXAMS Exam Name: AWS Amazon Certified Solutions Architect - Professional Exam Code: SAP-C01 Edition: Latest Version (100% valid and stable) Number of Questions: 708 Questions Answer How to Become an IT Architect Cristian Bojinca 2016-11 Defining the various types of IT architecture in the industry, this one-of-a-kind resource highlights the rewards of becoming an architect and explores the details of the deliverables, project structure, and how to approach their creation. -- AWS Certified Solutions Architect Study Guide with Online Labs Ben Piper 2020-07-15 Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified SysOps Administrator Study Guide to give you the same experience working in these labs as you prepare for the Certified SysOps Administrator Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS SysOps Administrator. This comprehensive book guides readers through the role of a SysOps Administrator and helps prepare candidates to take the updated AWS Certified SysOps Administrator—Associate (SOA-C01) Exam. The AWS Certified SysOps Administrator—Associate certification validates technical expertise in deployment, management, and operations on the AWS platform. This Study Guide not only prepares readers for the AWS exam, but it makes sure the reader is ready to perform the duties expected of SysOps Administrators. The book focuses on the skill-set required of AWS professionals by filling in the gap between test preparation and real-world preparedness. Concepts covered include: Monitoring and Reporting High Availability Deployment and Provisioning Storage and Data Management Security and Compliance Networking Automation and Optimization And More Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms. And with this edition you also get XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to XtremeLabs AWS Certified SysOps Administrator Labs with 6 unique lab modules based on the book. Cloud Computing Solutions Architect Arshdeep Bahga 2019-07-04 Fundamentals of Software Architecture Mark Richards 2020-01-28 Salary surveys worldwide regularly place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This book provides the first comprehensive overview of software architecture’s many
aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics. Mark Richards and Neal Ford—hands-on practitioners who have taught software architecture classes professionally for years—focus on architecture principles that apply across all technology stacks. You’ll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines: Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational approaches that have changed radically in the past few years Architecture as an engineering discipline: Repeatable results, metrics, and concrete valuations that add rigor to software architecture

IT Architecture For Dummies Kalani Kirk Hausman 2010-11-01 A solid introduction to the practices, plans, and skills required for developing a smart system architecture. Information architecture combines IT skills with the ability to plan and create an architecture that aligns business needs with IT structure and performance objectives. This friendly introduction to IT architecture walks you through the myriad issues and complex decisions that many organizations face when setting up IT systems to work in sync with business procedures. Veteran IT professional and author Kirk Hausman explains the business value behind IT architecture and provides you with an action plan for implementing IT architecture procedures in an organization. You’ll explore the many challenges that organizations face as they attempt to use technology to enhance their business’s productivity so that you can gain a solid understanding of the elements that are required to plan and create an architecture that meets specific business goals. Defines IT architecture as a blend of IT skills and business skills that focuses on business optimization, business architecture, performance management, and organizational structure. Uncover and examine every topic within IT architecture including network, system, data, services, application, and more. Addresses the challenges that organizations face when attempting to implement effective technology to enable profitability and business continuity. While companies look to technology more than ever to enhance productivity, you should look to IT architecture and provide you with an action plan for implementing IT architecture procedures in an organization. The Software Architect Elevator Gregor Holpe 2020-04-08 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 Holpe 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 their company’s direction; Enterprise architects and senior technologists searching for practical advice on how to navigate technical and organizational topics; and 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 AWS Certified Solutions Architect (Associate) Richard Jones 2018 Six and a half Hours of Video Instruction More than six hours of video instruction covering the knowledge necessary to pass the AWS Solutions Architect Associate certification exam, including an in-depth review of AWS architecture principles and best practices, and technical details pertaining to the implementation of services in accordance with the Well Architected Framework as published by Amazon Web Services. The AWS Certified Solutions Architect Associate Complete Video Course was developed specifically for the latest edition of the exam released in February of 2018. The AWS Solutions Architect Associate certification is ideal for anyone in a solutions architect or similar technical role, and this course is designed to help you pass the AWS Certified Solutions Architect Associate exam. We will cover all the key areas addressed in the exam and review a number of use cases designed to help you ingrain the principles and practices on which this certification is based so that you have an intellectual framework with which to formulate the correct answers. We will use a combination of demonstrations, architectural diagram walkthroughs, and case studies to help you understand the tools available to you for passing the exam. Throughout this course you will gain a deeper understanding of AWS architecture following the five pillars of the Well-architected framework. Demonstrations of Amazon Web Services and third-party cloud solutions are included to provide a clear guide to understanding the services offered by Amazon Web Services and the needs those services meet. Quizzes are also offered to help viewers gauge their ability to understand and retain the information presented. Topics include: Lesson 1: Solutions Architect Associate Certification Lesson 2: High Availability Lesson 3: Network Topology Lesson 4: Application Design Lesson 5: Network Performance Lesson 6: Compute Performance Lesson 7: Storage Performance Lesson 8: Database Performance Lesson 9: Leveraging Managed Services Lesson 10: Identity and Access Management Lesson 11: Detection Lesson 12: Securing Infrastructure Lesson 13: Securing Data Lesson 14: Cost Optimization Lesson 15: Operational Excellence About the Instructor Richard A. Jones is a certified AWS Solution Architect and an experienced instructor having taught the IT teams of numerous Fortune 500s and postgraduate students at the University of Colorado. His approach is client focused and emphasizes an uninterrupted, continuous flow of values that meets customer needs. You’ll explore various aspects of Agile architecture and how it differs from traditional architecture. The book later covers Agile architects’ responsibilities and how architects can add significant value by positioning themselves appropriately in the Agile flow of work. Through examples, you’ll also learn concepts such as architectural decision backlog, the last responsible moment, value delivery, architecting for change, DevOps, and evolutionary collaboration. By the end of this Agile book, you’ll be able to operate as an architect in Agile development initiatives and successfully architect reliable software systems. What will you learn? Acquire clarity on the duties of architects in Agile development; Understand architectural styles such as domain-driven design and microservices; Identify the pitfalls of traditional architecture and learn how to develop solutions that understand the principles of value and data-driven architecture; Discover how to design and continuously improve well-architected sustainable software. Many organizations have embraced Agile methodologies to transform their ability to rapidly respond to constantly changing customer demands. However, in this melee, many enterprises often neglect to invest in architects by presuming architecture is not an intrinsic element of Agile software development. Since the role of an architect is not pre-defined in Agile, many organizations struggle to position architects, often resulting in friction with other roles or a failure to provide a clear learning path for architects to be productive. This book guides architects and organizations through new Agile ways of incrementally developing the architecture for delivering an uninterrupted, continuous flow of values that meets customer needs. Who this book is for: This Agile study guide is for architects currently working on agile development projects or aspiring to work on agile software delivery, irrespective of the methodology they are using. You will also find this book useful if you’re a senior developer or a budding architect looking to understand an agile architect’s role by embracing agile architecture strategies and a lean-agile mindset. To understand the concepts covered in this book easily, you need to have prior knowledge of basic agile development practices.

Becoming an Agile Software Architect Rajesh R V 2021-03-19 A guide to successfully operating in a lean-agile organization for solutions architects and enterprise architects. Key Features Develop the right combination of processes and technical excellence to address architectural challenges. Explore a range of architectural techniques to modernize legacy systems. Discover how to design and continuously improve well-architected sustainable software. Book Description Many organizations have embraced Agile methodologies to transform their ability to rapidly respond to constantly changing customer demands. However, in this melee, many enterprises often neglect to invest in architects by presuming architecture is not an intrinsic element of Agile software development. Since the role of an architect is not pre-defined in Agile, many organizations struggle to position architects, often resulting in friction with other roles or a failure to provide a clear learning path for architects to be productive. This book guides architects and organizations through new Agile ways of incrementally developing the architecture for delivering an uninterrupted, continuous flow of values that meets customer needs. Who this book is for: This Agile study guide is for architects currently working on agile development projects or aspiring to work on agile software delivery, irrespective of the methodology they are using. You will also find this book useful if you’re a senior developer or a budding architect looking to understand an agile architect’s role by embracing agile architecture strategies and a lean-agile mindset. To understand the concepts covered in this book easily, you need to have prior knowledge of basic agile development practices.
Before Reuse (Kevin Henney) For the End User, the Interface Is the System (Vinayak Hegde) It's Never Too Early to Think About Performance (Rebecca Parsons) To be successful as a software architect, you need to master both business and technology. This book tells you what top software architects think is important and how they approach a project. If you want to enhance your career, 97 Things Every Software Architect Should Know is essential reading.

AWS for Solutions Architects Alberto Artasanchez 2021-02-19 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, system administrator, security consultant, or cloud 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 will 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: Rationale 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 resources to optimize balance performance and efficiency. 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.

97 Things Every Cloud Engineer Should Know Emily Freeman 2020-12-04 If you create, manage, operate, or configure systems running in the cloud, you’re a cloud engineer—even if you work as a system administrator, software developer, data scientist, or site reliability engineer. With this book, professionals from around the world provide valuable insight into today’s cloud engineering role. These concise articles explore the entire cloud computing experience, including fundamentals, architecture, and migration. You’ll delve into security and compliance, operations and reliability, and software development. And examine networking, organizational culture, and more. You’re sure to find 1, 2, or 97 things that inspire you to dig deeper and expand your own career. “Three Keys to Making the Right Multicloud Decisions,” Brendan O’Leary “Serverless Bad Practices,” Manasjesi Salando Bello “Failing a Cloud Migration,” Lee Atkinson “Treat Your Cloud Environment as If It Were On Premises,” Iyana Garry “What Is Toil, and Why Are SREs Obsessed With It?,” Zachary Nickens “Lean QA: The QA Evolving in the DevOps World,” Theresa Neate “How Economies of Scale Work in the Cloud,” Jon Moore “The Cloud Is Not About the Cloud,” Ken Corless “Data Gravity: The Importance of Data Management in the Cloud,” Geoff Hughes “Even in the Cloud, the Network Is the Foundation,” David Murray “Cloud Engineering Is About Culture, Not Containers,” Holly Cummings

Designed for Digital Jeanne W. Ross 2019-09-24 Practical advice for redesigning “big, old” companies for digital success, with examples from Amazon, BNY Mellon, LEGO, Philips, USAA, and many other global organizations. Most established companies have deployed such digital technologies as the cloud, mobile apps, the internet of things, and artificial intelligence. But few established companies are designed for digital. This book offers an essential guide for retooling organizations for digital success. In the digital economy, rapid pace of change in technology capabilities and customer desires means that business strategy must be fluid. As a result, the authors explain, business design has become a critical management responsibility. Effective business design enables a company to quickly pivot in response to new competitive threats and opportunities. Most leaders today, however, rely on organizational structure to implement strategy, unaware that structure inhibits, rather than enables, agility. In companies that are designed for digital, people, processes, data, and technology are synchronized to identify and deliver innovative customer solutions—and redefine strategy. Digital design, not strategy, is what separates winners from losers in the digital economy. Designed for Digital offers practical advice on digital transformation, with examples that include Amazon, BNY Mellon, DBS Bank, LEGO, Philips, Schneider Electric, USAA, and many other global organizations. Drawing on five years of research and in-depth case studies, the book is an essential guide for companies that want to disrupt rather than be disrupted in the new digital landscape. Five Building Blocks of Digital Business Success: Shared Customer Insights: Functional Backbone: Digital Platform Accountability: Framework: External Developer Platform: Value Streams: The Cloud Is Not About the Cloud,” Ken Corless

Solution Architecture with .NET Jamil Hallal 2021-08-27 Learn about the responsibilities of a .NET solution architect and explore solution architecture principles, DevOps solutions, and design techniques and standards with hands-on examples of design patterns. Who this book is for: This book is for intermediate and advanced .NET developers and software engineers who want to advance their careers and expand their knowledge of solution architecture and design principles. Beginner or intermediate-level solution architects looking for tips and tricks to build large-scale .NET solutions will find this book useful. Who this book is for: This book is for intermediate and advanced .NET developers and software engineers who want to advance their careers and expand their knowledge of solution architecture and design principles. Beginner or intermediate-level solution architects looking for tips and tricks to build large-scale .NET solutions will find this book useful.

Solution Architecture with .NET Jamil Hallal 2021-08-27 Learn about the responsibilities of a .NET solution architect and explore solution architecture principles, DevOps solutions, and design techniques and standards with hands-on examples of design patterns. Key Features: Find out what are the essential personality traits and responsibilities of a solution architect. Become well-versed with architecture principles and modern design patterns with hands-on examples. Design modern web solutions and make the most of Azure DevOps. Team Topologies will help readers discover: • Team patterns used by successful organizations. • Common team patterns to avoid with modern software systems. • When and why to use different team patterns. • How to evolve teams effectively. • How to split software and align to teams. How Economies of Scale Work in the Cloud,” Jon Moore

Solution Architecture with .NET Jamil Hallal 2021-08-27 Learn about the responsibilities of a .NET solution architect and explore solution architecture principles, DevOps solutions, and design techniques and standards with hands-on examples of design patterns. Key Features: Find out what are the essential personality traits and responsibilities of a solution architect. Become well-versed with architecture principles and modern design patterns with hands-on examples. Design modern web solutions and make the most of Azure DevOps. Team Topologies will help readers discover: • Team patterns used by successful organizations. • Common team patterns to avoid with modern software systems. • When and why to use different team patterns. • How to evolve teams effectively. • How to split software and align to teams.
more the rate of cloud platform adoption increases, so does the need for cloud certification. The AWS Certified Solution Architect - Associate Guide is your one-stop solution to gaining certification. Once you have grasped what AWS and its prerequisites are, you will get insights into different types of AWS services such as Amazon S3, EC2, VPC, SNS, and more to get you prepared with core Amazon services. You will then move on to understanding how to design and deploy highly scalable applications. Finally, you will study security concepts along with the AWS best practices and mock papers to test your knowledge. By the end of this book, you will not only be fully prepared to pass the AWS Certified Solutions Architect - Associate exam but also capable of building secure and reliable applications. What you will learn

Explore AWS terminology and identity and access management

Acquaint yourself with important cloud services and features in categories such as compute, network, storage, and databases

Define access control to secure AWS resources and set up efficient monitoring

Back up your database and ensure high availability by understanding all of the database-related services in the AWS Cloud

Integrate AWS with your applications to meet and exceed non-functional requirements

Build and deploy cost-effective and highly available applications

Who this book is for

This book is for The AWS Certified Solutions Architect - Associate Guide is for you if you are an IT professional or Solutions Architect wanting to pass the AWS Certified Solutions Architect - Associate exam. This book is also for developers looking to start building scalable applications on AWS

AWS Certified Solutions Architect Study Guide

Ben Piper 2019-03-19

Everything you need to know for the Solutions Architect - Associate Exam, fully updated The AWS Certified Solutions Architect Study Guide: Associate (SAA-C01) Exam is your complete and fully updated resource to the AWS Solutions Architect - Associate certification. This invaluable Sybex study guide covers all relevant aspects of the AWS Solutions Architect job role, including mapping multi-tier architectures to AWS services, loose coupling and stateless systems, applying AWS security features, deploying and managing services, designing large scale distributed systems, and many more. Written by two AWS subject-matter experts, this self-study guide and reference provides all the tools and information necessary to master the exam, earn your certification, and gain insights into the job of an AWS Solutions Architect. Efficient and logical presentation of exam objectives allows for flexible study of topics, and powerful learning tools increase comprehension and retention of key exam elements. Practice questions, chapter reviews, and detailed examination of essential concepts fully prepare you for the AWS Solutions Architect - Associate certification. The certification is highly valued in IT and cloud computing professionals. Now in a new edition—reflecting the latest changes, additions, and updates to the AWS Solutions Architect - Associate certification exam guide—this book is your complete, one-stop resource: Access the Sybex interactive learning environment and test bank, including chapter tests, practice exams, electronic flashcards, and a searchable glossary of key terms. Learn all the components of the AWS exam and know what to expect on exam day Review challenging exam topics and focus on the areas that need improvement Expand your AWS skillset and keep pace with current cloud computing technologies

The AWS Certified Solutions Architect Study Guide: Associate (SAA-C01) Exam enables you to validate your skills, increase your competitive advantage, and take the next step on your career path. Comprehensive and up-to-date content and superior study tools make this guide a must-have resource for those seeking AWS Solutions Architect - Associate certification.

Senior Solution Architect Red-Hot Career Guide; 2573 Real Interview Questions

Red-Hot Careers

2018-06-20

3 of the 2573 sweeping interview questions in this book, revealed: Setting Goals question: Did you have a strategic plan? How was it developed? How did you communicate it to the rest of your Senior Solution Architect staff? - Motivation and Values question: What Senior Solution Architect steps did you take to calm things down? - Business Acumen question: What compensation experience do you have? Land your next Senior Solution Architect role with ease and use the 2573 REAL Interview Questions in this time-tested book to demystify the entire job-search process. If you only want to use one long-trusted guidance, this is it. Assess and test yourself, then tackle and ace the interview and Senior Solution Architect role with 2573 REAL interview questions; covering 70 interview topics including Innovation, Interpersonal Skills, Ambition, Adaptability, Story, Brain teasers, Leadership, Planning and Organization, Motivating Others, and Responsibility. PLUS 60 MORE TOPICS... Pick up this book today to rock the interview and get your dream Senior Solution Architect Job.


David Ping 2022-01-21

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

Build and deploy cost-effective and highly available applications

Who this book is for

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.