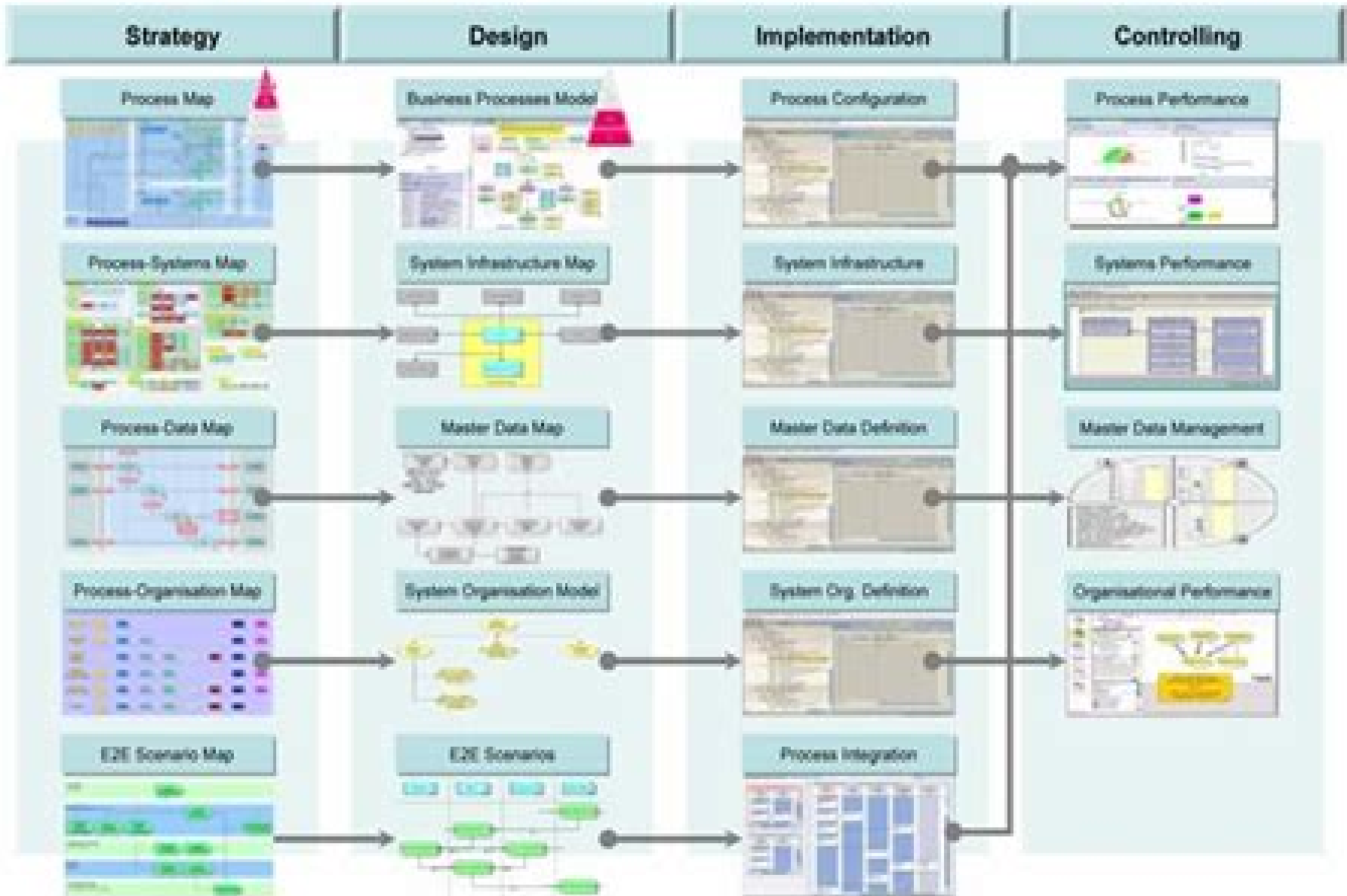


# Views of a solution architecture



# Solution Architecture Document

**Lingsheng Yao**



## **Solution Architecture Document:**

**Solutions Architect's Handbook** Saurabh Shrivastava, Neelanjali Srivastav, 2020-03-21 From fundamentals and design patterns to the different strategies for creating secure and reliable architectures in AWS cloud learn everything you need to become a successful solutions architect Key Features Create solutions and transform business requirements into technical architecture with this practical guide Understand various challenges that you might come across while refactoring or modernizing legacy applications Delve into security automation DevOps and validation of solution architecture Book Description Becoming a solutions architect gives you the flexibility to work with cutting edge technologies and define product strategies This handbook takes you through the essential concepts design principles and patterns architectural considerations and all the latest technology that you need to know to become a successful solutions architect This book starts with a quick introduction to the fundamentals of solution architecture design principles and attributes that will assist you in understanding how solution architecture benefits software projects across enterprises You ll learn what a cloud migration and application modernization framework looks like and will use microservices event driven cache based and serverless patterns to design robust architectures You ll then explore the main pillars of architecture design including performance scalability cost optimization security operational excellence and DevOps Additionally you ll also learn advanced concepts relating to big data machine learning and the Internet of Things IoT Finally you ll get to grips with the documentation of architecture design and the soft skills that are necessary to become a better solutions architect By the end of this book you ll have learned techniques to create an efficient architecture design that meets your business requirements What you will learn Explore the various roles of a solutions architect and their involvement in the enterprise landscape Approach big data processing machine learning and IoT from an architect s perspective and understand how they fit into modern architecture Discover different solution architecture patterns such as event driven and microservice patterns Find ways to keep yourself updated with new technologies and enhance your skills Modernize legacy applications with the help of cloud integration Get to grips with choosing an appropriate strategy to reduce cost Who this book is for This book is for software developers system engineers DevOps engineers architects and team leaders working in the information technology industry who aspire to become solutions architect professionals A good understanding of the software development process and general programming experience with any language will be useful Executing SOA Norbert Bieberstein, Robert Laird, Keith Jones, Tilak Mitra, 2008-05-05 The Expert Practical Guide to Succeeding with SOA in the Enterprise In Executing SOA four experienced SOA implementers share realistic proven from the trenches guidance for successfully delivering on even the largest and most complex SOA initiative This book follows up where the authors best selling Service Oriented Architecture Compass left off showing how to overcome key obstacles to successful SOA implementation and identifying best practices for all facets of execution technical organizational and human Among the issues it addresses introducing a services discipline

that supports collaboration and information process sharing integrating services with preexisting technology assets and strategies choosing the right roles for new tools shifting culture governance and architecture and bringing greater agility to the entire organizational lifecycle not just isolated projects Executing SOA is an indispensable resource for every enterprise architect technical manager and IT leader tasked with driving value from SOA in complex environments Coverage includes Implementing SOA governance that reflects the organization s strategic and business focus Running SOA projects successfully practical guidelines and proven methodologies around service modeling and design Leveraging reusable assets making the most of your SOA repository Enabling the architect to choose the correct tools and products containing the features required to execute on the SOA method for service design and implementation Defining information services to get the right information to the right people at the right time Integrating SOA with Web 2 0 and other innovative products and solutions Providing highly usable human interfaces in SOA environments

**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 FeaturesFind out what are the essential personality traits and responsibilities of a solution architectBecome well versed with architecture principles and modern design patterns with hands on examplesDesign modern web solutions and make the most of Azure DevOps to automate your development life cycleBook Description Understanding solution architecture is a must to build and integrate robust systems to meet your client s needs This makes it crucial for a professional NET software engineer to learn the key skills of a NET solution architect to create a unique digital journey and build solutions for a wide range of industries from strategy and design to implementation With this handbook developers working with the NET technology will be able to put their knowledge to work The book takes a hands on approach to help you become an effective solution architect You ll start by learning the principles of the software development life cycle SDLC the roles and responsibilities of a NET solution architect and what makes a great NET solution architect As you make progress through the chapters you ll understand the principles of solution architecture and how to design a solution and explore designing layers and microservices You ll complete your learning journey by uncovering modern design patterns and techniques for designing and building digital solutions By the end of this book you ll have learned how to architect your modern web solutions with ASP NET Core and Microsoft Azure and be ready to automate your development life cycle with Azure DevOps What you will learnUnderstand the role and core responsibilities of a NET solution architectStudy popular UML Unified Modeling Language diagrams for solution architectureWork with modern design patterns with the help of hands on examplesBecome familiar with microservices and designing layersDiscover how to design modern web solutionsAutomate your development life cycle with Azure DevOpsWho 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

Designing Security Architecture Solutions Jay Ramachandran, 2002-10-01 The first guide to tackle security architecture at the software engineering level Computer security has become a critical business concern and as such the responsibility of all IT professionals In this groundbreaking book a security expert with AT T Business renowned Network Services organization explores system security architecture from a software engineering perspective He explains why strong security must be a guiding principle of the development process and identifies a common set of features found in most security products explaining how they can and should impact the development cycle The book also offers in depth discussions of security technologies cryptography database security application and operating system security and more Microsoft Power Platform Enterprise Architecture Robert Rybaric, 2020-09-25 Gain a 360 degree view of Microsoft Power Platform and combine the benefits of Power Apps Power BI Power Automate Azure and Dynamics 365 to build an enterprise application platform for your organization Key Features Explore various Microsoft cloud components and find out how they can enhance your Power Platform solutions Get to grips with Microsoft Power Platform s security and extensibility integration and data migration models Discover architectural best practices for designing complex enterprise solutions Book Description For forward looking architects and decision makers who want to craft complex solutions to serve growing business needs Microsoft Power Platform Enterprise Architecture offers an array of architectural best practices and techniques With this book you ll learn how to design robust software using the tools available in the Power Platform suite and be able to integrate them seamlessly with various Microsoft 365 and Azure components Unlike most other resources that are overwhelmingly long and unstructured this book covers essential concepts using concise yet practical examples to help you save time You ll develop the skills you need to architect design and manage a complex solution as you follow the journey of a fictitious enterprise customer as they enter the world of Power Platform Throughout the book you ll discover how to combine the functionality of Power Apps Power Automate Power BI and Power Virtual Agents with various methodologies to effectively address application lifecycle management security and extensibility Finally you ll learn how to overcome common challenges in migrating data to and from Microsoft Power Platform using proven techniques By the end of this book you ll have the strategic perspective of an enterprise architect to make accurate architectural decisions for your complex Power Platform projects What you will learn Understand various Dynamics 365 CRM ERP and AI modules for creating Power Platform solutions Enhance Power Platform with Microsoft 365 and Azure Find out which regions staging environments and user licensing groups need to be employed when creating enterprise solutions Implement sophisticated security by using various authentication and authorization techniques Extend Power Apps Power BI and Power Automate to create custom applications Integrate your solution with various in house Microsoft components or third party systems using integration patterns Who this book is for This book is for enterprise architects and technical decision makers who want to craft complex solutions

using Microsoft Power Platform to serve growing business needs and to stay competitive in the modern IT world A basic understanding of Microsoft Power Platform will help you to get started with this book      **Capture Management** Gregory A. Garrett,Reginald J. Kipke,2005-03-01 The Capture Management Life Cycle provides a comprehensive step by step approach to help individuals and companies win more business The philosophy behind the Capture Management Life Cycle is that business is won with mutually beneficial offers that meet a customer s objectives as well as the seller s requirements for profitability The three phase Capture Management Life Cycle model is presented with inputs tools and techniques outputs case studies and forms templates to assist business professionals in selling products services or solutions The Capture Management Life Cycle consists of three phases ten stages and more than 35 key actions for winning more business

*Cloud Data Centers and Cost Modeling* Caesar Wu,Rajkumar Buyya,2015-02-27 Cloud Data Centers and Cost Modeling establishes a framework for strategic decision makers to facilitate the development of cloud data centers Just as building a house requires a clear understanding of the blueprints architecture and costs of the project building a cloud based data center requires similar knowledge The authors take a theoretical and practical approach starting with the key questions to help uncover needs and clarify project scope They then demonstrate probability tools to test and support decisions and provide processes that resolve key issues After laying a foundation of cloud concepts and definitions the book addresses data center creation infrastructure development cost modeling and simulations in decision making each part building on the previous In this way the authors bridge technology management and infrastructure as a service in one complete guide to data centers that facilitates educated decision making Explains how to balance cloud computing functionality with data center efficiency Covers key requirements for power management cooling server planning virtualization and storage management Describes advanced methods for modeling cloud computing cost including Real Option Theory and Monte Carlo Simulations Blends theoretical and practical discussions with insights for developers consultants and analysts considering data center development      Architecting Composite Applications and Services with TIBCO Paul C. Brown,2013 Today s

complex composite applications and services must be architected with exceptional care TIBCO Principal Software Architect Dr Paul C Brown shows how to use TIBCO technologies to architect them for maximum performance reliability and value Brown covers all major aspects of architecture participant structure and organization work structure and organization and mapping of work onto participants He first describes essential concepts associated with composite application and services including service utilization contracts component lifecycles naming namespaces and versioning Next he reviews relevant TIBCO products and technologies This book s full section on service design addresses specification architecture data modeling data structure design and designing for versioning Brown identifies proven service architecture patterns for several key issues An extensive discussion of composite applications covers composition styles and architecture collaboration orche      **Google Machine Learning and Generative AI for Solutions Architects** Kieran Kavanagh,2024-06-28 Architect

and run real world AI ML solutions at scale on Google Cloud and discover best practices to address common industry challenges effectively

**Key Features** Understand key concepts from fundamentals through to complex topics via a methodical approach Build real world end to end MLOps solutions and generative AI applications on Google Cloud Get your hands on a code repository with over 20 hands on projects for all stages of the ML model development lifecycle Purchase of the print or Kindle book includes a free PDF eBook

**Book Description** Most companies today are incorporating AI ML into their businesses Building and running apps utilizing AI ML effectively is tough This book authored by a principal architect with about two decades of industry experience who has led cross functional teams to design plan implement and govern enterprise cloud strategies shows you exactly how to design and run AI ML workloads successfully using years of experience from some of the world s leading tech companies You ll get a clear understanding of essential fundamental AI ML concepts before moving on to complex topics with the help of examples and hands on activities This will help you explore advanced cutting edge AI ML applications that address real world use cases in today s market You ll recognize the common challenges that companies face when implementing AI ML workloads and discover industry proven best practices to overcome these The chapters also teach you about the vast AI ML landscape on Google Cloud and how to implement all the steps needed in a typical AI ML project You ll use services such as BigQuery to prepare data Vertex AI to train deploy monitor and scale models in production as well as MLOps to automate the entire process By the end of this book you will be able to unlock the full potential of Google Cloud s AI ML offerings

**What you will learn** Build solutions with open source offerings on Google Cloud such as TensorFlow PyTorch and Spark Source understand and prepare data for ML workloads Build train and deploy ML models on Google Cloud Create an effective MLOps strategy and implement MLOps workloads on Google Cloud Discover common challenges in typical AI ML projects and get solutions from experts Explore vector databases and their importance in Generative AI applications Uncover new Gen AI patterns such as Retrieval Augmented Generation RAG agents and agentic workflows

**Who this book is for** This book is for aspiring solutions architects looking to design and implement AI ML solutions on Google Cloud Although this book is suitable for both beginners and experienced practitioners basic knowledge of Python and ML concepts is required The book focuses on how AI ML is used in the real world on Google Cloud It briefly covers the basics at the beginning to establish a baseline for you but it does not go into depth on the underlying mathematical concepts that are readily available in academic material

**SOA Governance** William A. Brown, Robert Laird, Clive Gee, Tilak Mitra, 2008-12-19 Address the 1 Success Factor in SOA Implementations Effective Business Driven Governance Inadequate governance might be the most widespread root cause of SOA failure In SOA Governance a team of IBM s leading SOA governance experts share hard won best practices for governing IT in any service oriented environment The authors begin by introducing a comprehensive SOA governance model that has worked in the field They define what must be governed identify key stakeholders and review the relationship of SOA governance to existing governance bodies as well as governance

frameworks like COBIT Next they walk you through SOA governance assessment and planning identifying and fixing gaps setting goals and objectives and establishing workable roadmaps and governance deliverables Finally the authors detail the build out of the SOA governance model with a case study The authors illuminate the unique issues associated with applying IT governance to a services model including the challenges of compliance auditing when service behavior is inherently unpredictable They also show why services governance requires a more organizational business centric focus than conventional IT governance Coverage includes Understanding the problems SOA governance needs to solve Establishing and governing service production lines that automate SOA development activities Identifying reusable elements of your existing IT governance model and prioritizing improvements Establishing SOA authority chains roles responsibilities policies standards mechanisms procedures and metrics Implementing service versioning and granularity Refining SOA governance frameworks to maintain their vitality as business and IT strategies change

*Enterprise Information Management in Practice* Saumya Chaki, 2015-12-19 Learn how to form and execute an enterprise information strategy topics include data governance strategy data architecture strategy information security strategy big data strategy and cloud strategy Manage information like a pro to achieve much better financial results for the enterprise more efficient processes and multiple advantages over competitors As you ll discover in *Enterprise Information Management in Practice* EIM deals with both structured data e g sales data and customer data as well as unstructured data like customer satisfaction forms emails documents social network sentiments and so forth With the deluge of information that enterprises face given their global operations and complex business models as well as the advent of big data technology it is not surprising that making sense of the large piles of data is of paramount importance Enterprises must therefore put much greater emphasis on managing and monetizing both structured and unstructured data As Saumya Chaki an information management expert and consultant with IBM explains in *Enterprise Information Management in Practice* it is now more important than ever before to have an enterprise information strategy that covers the entire life cycle of information and its consumption while providing security controls With Fortune 100 consultant Saumya Chaki as your guide *Enterprise Information Management in Practice* covers each of these and the other pillars of EIM in depth which provide readers with a comprehensive view of the building blocks for EIM Enterprises today deal with complex business environments where information demands take place in real time are complex and often serve as the differentiator among competitors The effective management of information is thus crucial in managing enterprises EIM has evolved as a specialized discipline in the business intelligence and enterprise data warehousing space to address the complex needs of information processing and delivery and to ensure the enterprise is making the most of its information assets

*Soa Made Simple* Lonneke Dikmans, 2012-01-01 *SOA Made Simple* is a concise and indispensable handbook for finally understanding exactly what Service Oriented Architecture is Split into three clear sections in this book you ll learn from both theory as well as step by step implementation examples to aid in your

understanding of this often poorly articulated industry term If you are an architect who wants to be completely clear in your understanding of what SOA is then this book is essential In fact anyone designer developer administrator or team lead who is implementing or about to implement an architecture in an IT environment should not miss out on SOA Made Simple Some previous experience with general software architecture is required but this guide will tell you everything you need to know about SOA in a clear and easy fashion

**Mastering Agile Project Management** Morgan Carter, 2023-11-24 Unlock APMG Certification and Agile Mastery Your All in One Guide to Acing the Exams and Leading Agile Projects with Confidence In the flux of today's fast paced and ever changing project environments agility in management has transcended from being a mere methodology to a vital skill Introducing Mastering Agile Project Management Your Key to Excelling at the APMG Foundation and Practitioner Exams with Confidence a masterful creation by Morgan Carter designed to be your steadfast companion through your journey towards agility in project management Discover a Universe of Agile Knowledge Explore the essentials principles and advanced tenets of Agile Project Management and DSDM Unravel the intricacies of Agile philosophy from initiation to delivery in a structured comprehensible manner Practical Tools and Insights for Real world Application Dive into a wealth of real world scenarios case studies and pragmatic approaches Grasp the practicalities of agile concepts like MoSCoW Prioritisation and Timeboxing Ace the Agile Project Management Examinations with Confidence Navigate through targeted strategies devised for both Agile Project Management Foundation and Practitioner exams Employ actionable tips and insights to optimize your preparation journey Beyond Certification A Career Catalyst Envision your career trajectory through the lens of Agile mastery and strategic project leadership Infuse agile excellence into your projects and organizational practices Join Morgan Carter on a Journey to Agile Mastery Morgan with decades of wisdom and experience in Agile environments handholds you through a journey from understanding the nuts and bolts of Agile Project Management to mastering its application in complex project scenarios This book does not merely focus on certification success but aims to shape you into an Agile leader who drives projects to success while fostering an environment of continuous improvement and learning What's Inside Engaging Chapters Detailed reader friendly chapters covering both foundational and practitioner Agile concepts Practical Scenarios Actionable insights into dealing with common challenges and scenarios in Agile projects Study Aids Exam tips to solidify your preparation for Agile Project Management certifications Lifetime Reference A treasure trove of Agile wisdom that you will revisit throughout your career Mastering Agile Project Management is not just a guide it's a lifelong career companion aiming to fortify your Agile knowledge and application sculpting you into a revered Agile Project Leader Embark on a transformative journey towards Agile mastery with a guide who understands not just the path but the adventures it entails Grab Your Copy and Begin Your Journey towards Agile Excellence Today

[IBM i2 Integrated Law Enforcement: Technical Architecture and Deployment Guide](#) Wil Jamison, John Dowling, IBM Redbooks, 2014-11-17 IBM i2 Integrated Law Enforcement is an IBM Smarter Cities solution that addresses the needs of modern day law enforcement

agencies It is a solution framework that provides the individual capabilities of the products that comprise the solution and extended capabilities developed through the synergistic integration of those product components As a framework IBM i2 Integrated Law Enforcement allows for the continuous expansion of capabilities by putting together building blocks within the system and integrating with new external systems In doing so an organization can respond and adapt to its changing needs Simply stated the configuration integration and implementation of IBM i2 Integrated Law Enforcement and its components provide the tools for more effective law enforcement This IBM Redpaper™ publication explains the technology and the architecture on which the solution is built Most importantly this paper enables technical teams to install configure and deploy an instance of the i2 Integrated Law Enforcement solution using the product i2 Intelligent Law Enforcement V1 0 1 This paper is targeted to solution architects system and deployment engineers security specialists data management experts system analysts software developers and test engineers and system administrators Readers of this paper will benefit from the IBM Redguide™ publication Integrated Law Enforcement A Holistic Approach to Solving Crime REDP 5116

*Practitioner's Guide to Data Science* Nasir Ali Mirza, 2022-01-17 Covers Data Science concepts processes and the real world hands on use cases KEY FEATURES Covers the journey from a basic programmer to an effective Data Science developer Applied use of Data Science native processes like CRISP DM and Microsoft TDSP Implementation of MLOps using Microsoft Azure DevOps DESCRIPTION How is the Data Science project to be implemented has never been more conceptually sounding thanks to the work presented in this book This book provides an in depth look at the current state of the world's data and how Data Science plays a pivotal role in everything we do This book explains and implements the entire Data Science lifecycle using well known data science processes like CRISP DM and Microsoft TDSP The book explains the significance of these processes in connection with the high failure rate of Data Science projects The book helps build a solid foundation in Data Science concepts and related frameworks It teaches how to implement real world use cases using data from the HMDA dataset It explains Azure ML Service architecture its capabilities and implementation to the DS team who will then be prepared to implement MLOps The book also explains how to use Azure DevOps to make the process repeatable while we're at it By the end of this book you will learn strong Python coding skills gain a firm grasp of concepts such as feature engineering create insightful visualizations and become acquainted with techniques for building machine learning models WHAT YOU WILL LEARN Organize Data Science projects using CRISP DM and Microsoft TDSP Learn to acquire and explore data using Python visualizations Get well versed with the implementation of data pre processing and Feature Engineering Understand algorithm selection model development and model evaluation Hands on with Azure ML Service its architecture and capabilities Learn to use Azure ML SDK and MLOps for implementing real world use cases WHO THIS BOOK IS FOR This book is intended for programmers who wish to pursue AI ML development and build a solid conceptual foundation and familiarity with related processes and frameworks Additionally this book is an excellent resource for Software

Architects and Managers involved in the design and delivery of Data Science based solutions

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*arc42 by Example* Dr. Gernot Starke, Michael Simons, Stefan Zörner, Ralf D. Müller, 2019-10-07

Document the architecture of your software easily with this highly practical open source template

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- Break a system down into building blocks and illustrate the relationships between them
- Discover how to describe the runtime behavior of a system
- Know how to document design decisions and their reasons
- Explore the risks and technical debt of your system

Who this book is for

This book is for software developers and solutions architects who are looking for an easy open source tool to document their systems It is a useful reference for those who are already using arc42 If you are new to arc42 this book is a great learning resource For those of you who want to write better technical documentation will benefit from the general concepts covered in this book

*Security Controls Evaluation, Testing, and Assessment Handbook*

Leighton Johnson, 2019-11-21

Security Controls Evaluation Testing and Assessment Handbook Second Edition provides a current and well developed approach to evaluate and test IT security controls to prove they are functioning correctly This handbook discusses the world of threats and potential breach actions surrounding all industries and systems Sections cover how to take FISMA NIST Guidance and DOD actions while also providing a detailed hands on guide to performing assessment events for information security professionals in US federal agencies This handbook uses the DOD Knowledge Service and the NIST Families assessment guides as the basis for needs assessment requirements and evaluation efforts Provides direction on how to use SP800 53A SP800 115 DOD Knowledge Service and the NIST Families assessment guides to implement thorough evaluation efforts Shows readers how to implement proper evaluation testing assessment procedures and methodologies with step by step walkthroughs of all key concepts Presents assessment techniques for each type of

control provides evidence of assessment and includes proper reporting techniques      **Strategic Enterprise Architecture Management** Frederik Ahlemann, Eric Stettiner, Marcus Messerschmidt, Christine Legner, 2012-01-05 The Enterprise Architecture Management EAM discipline deals with the alignment of business and information systems architectures While EAM has long been regarded as a discipline for IT managers this book takes a different stance It explains how top executives can use EAM to leverage their strategic planning and controlling processes as well as how it can contribute to their sustainable competitive advantage Based on the analysis of best practices from eight leading European companies from various industries the book presents the crucial elements of successful EAM It outlines what executives need to do in terms of governance processes methodologies and culture in order to bring their management to the next level Beyond this the book points out how EAM could develop in the next decade thus allowing today's managers to prepare for the future architecture management      **Design - Build - Run** Dave Ingram, 2009-02-23 This unique and critical book shares no fail secrets for building software and offers tried and true practices and principles for software design development and testing for mission critical systems that must not fail A veteran software architect walks you through the lifecycle of a project as well as each area of production readiness functionality availability performance and scalability operability maintainability and extensibility and highlights their key concepts      *SAP S/4HANA Central Finance and Group Reporting* Sudipta Malakar, 2022-05-04 Put together a centralised repository for all financial information and alter it as you see fit **KEY FEATURES** Expert led approach to implementing S 4 Central Finance in a wide range of companies Solution focused responses on Central Finance Group reporting BPC and Fiori Preparation guide for the certification exam and SAP S 4HANA Interview **DESCRIPTION** Your SAP S 4HANA journey has just begun This book details several processes methods and expert strategies for integrating central finance into your IT systems streamlining finance operations data reporting and master data preparation With the help of this book you'll learn all you need to know to get the most out of SAP S 4HANA Central Finance SAP Group Reporting BPC Fiori and other cutting edge technologies This book includes numerous examples to demonstrate the essentials of SAP S 4HANA Central Finance SAP Group reporting BPC and Fiori It offers extensive hands on practice utilizing SAP S 4HANA standards to demonstrate Fiori BPC SAP S 4HANA Central Finance and Group reporting The book contains many applications and projects from throughout the industry spectrum Interviewing for a job and passing the SAP Certification exam can be made easier with the help of this book After reading this book you will be able to perform SAP S 4HANA Central Finance and SAP Group reporting operations You can also define complex activities in SAP S 4HANA **WHAT YOU WILL LEARN** Conduct the implementation of Central Finance in your IT environment Consolidate your SAP S 4HANA system's finances Carry out currency conversion intercompany elimination financial closure and reporting Perform a BPC Evaluation Carry out SAP S 4HANA Central Finance and Group reporting functions Utilize Fiori applications to perform SAP S 4HANA operations **WHO THIS BOOK IS FOR** This book is a must for SAP consultants architects and project managers who

wish to become proficient in the SAP S/4HANA project life cycle phases

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