

Download Ebook Microsoft Net Architecting Applications For The Enterprise 2nd Edition Developer Reference Dino Esposito Pdf For Free

Microsoft .NET - Architecting Applications for the Enterprise Microsoft .NET - **Architecting Applications for the Enterprise** *Microsoft .NET Microsoft .Net: Architecting Applications For The Enterprise* **Architecting Cloud Native Applications Modern Web Development** *Architecting Big Data Applications: Real-Time Application Engineering* **Exam Prep for Microsoft .NET - Architecting Applications ... Architecting Modern Java EE Applications Designing Mobile Apps** *Essential Windows Azure Architecting Spring 5 Applications* *Architecting Microsoft Azure Solutions - Exam Guide 70-535* [Architecting for Scale](#) **Architecting for Scale** *Application Architecture for .NET* [Architecting Web Services](#) [Architecting the Internet of Things](#) [Designing the Requirements](#) [Architecting High Performing, Scalable and Available Enterprise Web Applications](#) [Exam Ref 70-535 Architecting Microsoft Azure Solutions](#) [Architecting ASP.Net 2.0 Applications](#) [High-Assurance Design](#) **Architecting for Scale, 2nd Edition** [Power-Aware Architecting](#) **Microsoft SharePoint**

2013 Designing and Architecting Solutions Architecting Solutions with SAP Business Technology Platform *Software Architecture with C# 9 and .NET 5* **Architecting Data Intensive Applications Re-Architecting Application for Cloud Dependable IoT for Human and Industry: Modeling, Architecting, Implementation** **Hadoop Application Architectures Kubernetes Patterns Mastering Non-Functional Requirements** *Architecting with RM-ODP* **Designing Enterprise Applications with the J2EE Platform** **Architecting Big Data Applications: Real-Time Application Engineering** *Microsoft ASP.NET and AJAX* **Architecting Mobile Solutions for the Enterprise** *Architecting Big Data Applications: Batch Mode Application Engineering*

Join Paul D. Sheriff as he takes you through how to architect ASP.NET Applications. Paul has a knack for breaking down complex concepts into an easy-to-understand language. By reading this book you will learn to create ASP.NET 2.0 applications that will be re-

useable, flexible, and maintainable. By following a good prescriptive guide to building applications you will find that your development time will be reduced. This book will save you hours of time because it already includes the following: A Data Provider Model that works with various databases. A Configuration Provider Model that allows you to store configuration settings in any location. An Exception Provider Model that allows you to store exceptions in many locations. A Web Page Base Class that adds features onto the ASP.NET page class. A great introduction to CSS, Themes, Skins and the effective use of Master Pages. If you started from scratch it would take you over 50 hours of time to develop all the classes that are included in this book! Too many software applications don't do what's needed or they do it clumsily, frustrating their users and owners. The core problem: poorly conceived and poorly crafted requirements. In *Designing the Requirements*, Chris Britton explains why it's not enough to simply "gather" requirements—you need to design them. Britton offers powerful techniques for

understanding stakeholders' concerns and working with stakeholders to get the requirements right. Using Britton's context-driven approach to requirements design, you can detect inconsistencies, incompleteness, poor usability, and misalignment with business goals upstream—long before developers start coding. You can also design outward-looking applications and services that will integrate more effectively in a coherent IT architecture. First, Britton explains what requirements design really means and presents a hierarchy of designs that move step by step from requirements through implementation. Next, he demonstrates how to build on requirements processes you already use and how to overcome their serious limitations in large-scale development. Then, he walks you through designing your application's relationship with the business, users, data, and other software to ensure superior usability, security, and maximum scalability and resilience. Whether you're a software designer, architect, project manager, or programmer, *Designing the Requirements* will help you design software that works—for users, IT, and the entire business. Coverage includes *Designing the entire business solution, not just its software component* *Using engineering-style design analysis to find flaws before implementation* *Designing services, and splitting large development efforts into smaller, more manageable projects* *Planning logical user interfaces that lead to superior user*

experiences *Designing databases and data access to reflect the meaning of your data* *Building application frameworks that simplify life for programmers and project managers* *Setting reasonable and achievable goals for performance, availability, and security* *Designing for security at all levels, from strategy to code* *Identifying new opportunities created by context-driven design* *Find out how to craft effective, business-oriented Java EE 8 applications that target customer's demands in the age of Cloud platforms and container technology.* *About This Book* *Understand the principles of modern Java EE and how to realize effective architectures* *Gain knowledge of how to design enterprise software in the age of automation, Continuous Delivery and Cloud platforms* *Learn about the reasoning and motivations behind state-of-the-art enterprise Java technology, that focuses on business* *Who This Book Is For* *This book is for experienced Java EE developers who are aspiring to become the architects of enterprise-grade applications, or software architects who would like to leverage Java EE to create effective blueprints of applications.* *What You Will Learn* *What enterprise software engineers should focus on* *Implement applications, packages, and components in a modern way* *Design and structure application architectures* *Discover how to realize technical and cross-cutting aspects* *Get to grips with containers and container orchestration technology* *Realize zero-dependency, 12-factor, and Cloud-native*

applications *Implement automated, fast, reliable, and maintainable software tests* *Discover distributed system architectures and their requirements* *In Detail Java EE 8 brings with it a load of features, mainly targeting newer architectures such as microservices, modernized security APIs, and cloud deployments.* *This book will teach you to design and develop modern, business-oriented applications using Java EE 8. It shows how to structure systems and applications, and how design patterns and Domain Driven Design aspects are realized in the age of Java EE 8.* *You will learn about the concepts and principles behind Java EE applications, and how to effect communication, persistence, technical and cross-cutting concerns, and asynchronous behavior.* *This book covers Continuous Delivery, DevOps, infrastructure-as-code, containers, container orchestration technologies, such as Docker and Kubernetes, and why and especially how Java EE fits into this world.* *It also covers the requirements behind containerized, zero-dependency applications and how modern Java EE application servers support these approaches.* *You will also learn about automated, fast, and reliable software tests, in different test levels, scopes, and test technologies.* *This book covers the prerequisites and challenges of distributed systems that lead to microservice, shared-nothing architectures.* *The challenges and solutions of consistency versus scalability will further lead us to event sourcing, event-driven*

architectures, and the CQRS principle. This book also includes the nuts and bolts of application performance as well as how to realize resilience, logging, monitoring and tracing in a modern enterprise world. Last but not least the demands of securing enterprise systems are covered. By the end, you will understand the ins and outs of Java EE so that you can make critical design decisions that not only live up to, but also surpass your clients' expectations. Style and approach This book focuses on solving business problems and meeting customer demands in the enterprise world. It covers how to create enterprise applications with reasonable technology choices, free of cargo-cult and over-engineering. The aspects shown in this book not only demonstrate how to realize a certain solution, but also explain its motivations and reasoning. This is a reference book for Architects. This book can be helpful for those developers who wants to increase breadth of knowledge about tools and technology. If you are planning for career advancement and you are interviewing for cloud architect, this book can also be used for interview preparation purpose. You can go through this book before your interview every time, so that you will remember all the concepts before interview. As the technology is evolving very fast, new tools and technologies are coming every day. This book covers fundamental of architecting or re-architecting of the application. This book also makes you aware and provides details about

tools and technology available in cloud. This book does not over explain any concepts, keeping in mind that you can complete your reading in less time. With this book, you will get lot of information in less reading time. Design and architect highly scalable, robust, clean, and high performance Java applications About This Video Understand the Spring software architecture layers and modules to design applications to help you to meet current business needs Architect applications with practical architectural quality attributes using Spring Explore Microservices Architecture with Spring Cloud and its deployment in Enterprise application architecture development In Detail Java developers like you wish to build dynamic enterprise applications and Spring 5 helps you architect applications with a modular and integral approach. This course will help you understand architecturally significant demands while building enterprise applications and see how to determine them. You'll also get a complete understanding of the different architectural quality requirements that will help you build a product that satisfies business needs, such as maintainability, testability, scalability, performance, usability, and security. You'll start by learning about the quality architectural requirements of Spring 5 software design. Next, you'll understand the Spring database architecture and how it helps you architect a NoSQL database in your enterprise applications. Moving on, you'll find out about Microservices Architecture and its practical

usage in enterprise application development. Further on, you'll learn how Spring provides Cloud Deployment and how DevOps Integration works. Lastly, you'll see practically how Spring 5 provides utilities in its architecture to perform Unit and Integration Testing and provides both authentication and authorization to enable security. By the end of this course, you'll be able to acknowledge Spring 5 and its architectural quality requirements to help design an efficient enterprise and web application that satisfies growing business needs. The code bundle for this video course is available at- <https://github.com/PacktPublishing/Architecting-Spring-5-applications> . Learn about use cases and best practices for architecting real-time applications using big data technologies, such as Hazelcast and Apache Spark. A practical handbook packed with expert advice on architectural considerations for designing solutions using SAP BTP to drive digital innovation Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Guide your customers with proven architectural strategies and considerations on SAP BTP Tackle challenges in building process and data integration across complex and hybrid landscapes Discover SAP BTP services, including visualizations, practical business scenarios, and more Book Description SAP BTP is the foundation of SAP's intelligent and sustainable enterprise vision for its customers. It's efficient, agile, and an enabler of

innovation. It's technically robust, yet its superpower is its business centricity. If you're involved in building IT and business strategies, it's essential to familiarize yourself with SAP BTP to see the big picture for digitalization with SAP solutions. Similarly, if you have design responsibilities for enterprise solutions, learning SAP BTP is crucial to produce effective and complete architecture designs. This book teaches you about SAP BTP in five parts. First, you'll see how SAP BTP is positioned in the intelligent enterprise. In the second part, you'll learn the foundational elements of SAP BTP and find out how it operates. The next part covers integration architecture guidelines, integration strategy considerations, and integration styles with SAP's integration technologies. Later, you'll learn how to use application development capabilities to extend enterprise solutions for innovation and agility. This part also includes digital experience and process automation capabilities. The last part covers how SAP BTP can facilitate data-to-value use cases to produce actionable business insights. By the end of this SAP book, you'll be able to architect solutions using SAP BTP to deliver high business value. What you will learn

- Explore value propositions and business processes enabled by SAP's Intelligent and Sustainable Enterprise
- Understand SAP BTP's foundational elements, such as commercial and account models
- Discover services that can be part of solution designs to fulfill non-functional requirements
- Get to grips with integration and extensibility

services for building robust solutions

- Understand what SAP BTP offers for digital experience and process automation
- Explore data-to-value services that can help manage data and build analytics use cases

Who this book is for This SAP guide is for technical architects, solutions architects, and enterprise architects working with SAP solutions to drive digital transformation and innovation with SAP BTP. Some IT background and an understanding of basic cloud concepts is assumed. Working knowledge of the SAP ecosystem will also be beneficial. Get certified as an Azure architect by acing the 70-535 Architecting Microsoft Solutions (70-535) exam using this comprehensive guide with full coverage of the exam objectives

Key Features

- Learn to successfully design and architect powerful solutions on the Azure Cloud platform
- Enhance your skills with mock tests and practice questions

A detailed certification guide that will help you ace the 70-535 exam with confidence

Book Description Architecting Microsoft Azure Solutions: Exam Guide 70-535 will get Azure architects and developers up-to-date with the latest updates on Azure from an architecture and design perspective. The book includes all the topics that are still relevant from the previous 70-534 exam, and is updated with latest topics covered, including Artificial Intelligence, IoT, and architecture styles. This exam guide is divided into six parts, where the first part will give you a good understanding of how to design a compute infrastructure. It also

dives into designing networking and data implementations. You will learn about designing solutions for Platform Service and operations. Next, you will be able to secure your resources and data, as well as design a mechanism for governance and policies. You will also understand the objective of designing solutions for Platform Services, by covering Artificial Intelligence, IoT, media services, and messaging solution concepts. Finally, you will cover the designing for operations objective. This objective covers application and platform monitoring, as well as designing alerting strategies and operations automation strategies. By the end of the book, you'll have met all of the exam objectives, and will have all the information you need to ace the 70-535 exam. You will also have become an expert in designing solutions on Microsoft Azure. What you will learn

- Use Azure Virtual Machines to design effective VM deployments
- Implement architecture styles, like serverless computing and microservices
- Secure your data using different security features and design effective security strategies
- Design Azure storage solutions using various storage features
- Create identity management solutions for your applications and resources
- Architect state-of-the-art solutions using Artificial Intelligence, IoT, and Azure Media Services
- Use different automation solutions that are incorporated in the Azure platform

Who this book is for This book is for architects and experienced developers, who are gearing up for the 70-535

exam. Technical architects interested in learning more about designing Cloud solutions will also find this book useful. Get expert guidance on architecting end-to-end data management solutions with Apache Hadoop. While many sources explain how to use various components in the Hadoop ecosystem, this practical book takes you through architectural considerations necessary to tie those components together into a complete tailored application, based on your particular use case. To reinforce those lessons, the book's second section provides detailed examples of architectures used in some of the most commonly found Hadoop applications. Whether you're designing a new Hadoop application, or planning to integrate Hadoop into your existing data infrastructure, Hadoop Application Architectures will skillfully guide you through the process. This book covers: Factors to consider when using Hadoop to store and model data Best practices for moving data in and out of the system Data processing frameworks, including MapReduce, Spark, and Hive Common Hadoop processing patterns, such as removing duplicate records and using windowing analytics Giraph, GraphX, and other tools for large graph processing on Hadoop Using workflow orchestration and scheduling tools such as Apache Oozie Near-real-time stream processing with Apache Storm, Apache Spark Streaming, and Apache Flume Architecture examples for clickstream analysis, fraud detection, and data warehousing

Architecting Web Services is targeted toward developers and technical architects who have heard about, and even started to work with, Web services. The book starts with a background on the evolution of Web services and their significance to future collaborative efforts via the Internet. It then reveals the architecture for Web services and the various relationships that can be established through their consumption. Following a short technical primer on XML and related technologies, the Web services model is outlined to illustrate the decisions that have to be made in the areas of presentation, interface, and security before the design is even started. Topics ranging from content to state management to system infrastructures are discussed to help you understand the options and the pitfalls when developing robust Web services. The life cycle of implementing Web services from start to finish is illustrated, taking existing processes and exposing their functionality through Web services. Examples extend both Java and COM objects as Web services before exposing an entire hotel reservation system through a Web services workflow. These exercises are followed by three application scenarios that consume these Web services, again with both Java and Visual Basic/ASP examples. Discussions cover the design, implementation, and testing of each solution to ensure a successful result. Finally, the book takes a look ahead at the future of Web services by examining both the current strategies of the primary vendors and the

standards initiatives that are presently under way. A companion website provides all the source code, and hosts the Web services and sample applications introduced in the book. Following her widely acclaimed Autobiography of Red ("A spellbinding achievement" --Susan Sontag), a new collection of poetry and prose that displays Anne Carson's signature mixture of opposites--the classic and the modern, cinema and print, narrative and verse. In Men in the Off Hours, Carson reinvents figures as diverse as Oedipus, Emily Dickinson, and Audubon. She views the writings of Sappho, St. Augustine, and Catullus through a modern lens. She sets up startling juxtapositions (Lazarus among video paraphernalia; Virginia Woolf and Thucydides discussing war). And in a final prose poem, she meditates on the recent death of her mother. With its quiet, acute spirituality, its fearless wit and sensuality, and its joyful understanding that "the fact of the matter for humans is imperfection," Men in the Off Hours shows us "the most exciting poet writing in English today" (Michael Ondaatje) at her best. From the Hardcover edition. Rethink the way you plan, design, and build Web applications—with expert guidance from Web development luminary Dino Esposito. Whether giving legacy sites a much-needed tune-up—or architecting rich Internet applications from the ground up—you'll learn pragmatic approaches to AJAX development that you can employ today. Discover how to: Delve into the mechanics and design goals of partial

rendering—such as improving page-refresh speed Use AJAX-enabled server controls to bring desktop-like functionality to Web solutions Apply design patterns to common Web development issues, including client-side data binding Manipulate JavaScript more easily using the jQuery and Microsoft AJAX libraries Examine the interoperability and security models in Microsoft Silverlight Weigh the tradeoffs when architecting Web applications for richness (Silverlight) vs. reach (AJAX)—and deliver the right solution for your audience Cliff Berg shows how to design high-assurance applications that build in reliability, security, manageability, and maintainability upfront. He draws on real-world scenarios and actual applications, focusing heavily on the activities and relationships associated with building superior software. Apply cloud native patterns and practices to deliver responsive, resilient, elastic, and message-driven systems with confidence Key Features Discover best practices for applying cloud native patterns to your cloud applications Explore ways to effectively plan resources and technology stacks for high security and fault tolerance Gain insight into core architectural principles using real-world examples Book Description Cloud computing has proven to be the most revolutionary IT development since virtualization. Cloud native architectures give you the benefit of more flexibility over legacy systems. This Learning Path teaches you everything you need to know for designing industry-grade cloud applications

and efficiently migrating your business to the cloud. It begins by exploring the basic patterns that turn your database inside out to achieve massive scalability. You'll learn how to develop cloud native architectures using microservices and serverless computing as your design principles. Then, you'll explore ways to continuously deliver production code by implementing continuous observability in production. In the concluding chapters, you'll learn about various public cloud architectures ranging from AWS and Azure to the Google Cloud Platform, and understand the future trends and expectations of cloud providers. By the end of this Learning Path, you'll have learned the techniques to adopt cloud native architectures that meet your business requirements. This Learning Path includes content from the following Packt products: Cloud Native Development Patterns and Best Practices by John Gilbert Cloud Native Architectures by Erik Farr et al. What you will learn Understand the difference between cloud native and traditional architecture Automate security controls and configuration management Minimize risk by evolving your monolithic systems into cloud native applications Explore the aspects of migration, when and why to use it Apply modern delivery and testing methods to continuously deliver production code Enable massive scaling by turning your database inside out Who this book is for This Learning Path is designed for developers who want to progress into building

cloud native systems and are keen to learn the patterns involved. Software architects, who are keen on designing scalable and highly available cloud native applications, will also find this Learning Path very useful. To easily grasp these concepts, you will need basic knowledge of programming and cloud computing. Every day, companies struggle to scale critical applications. As traffic volume and data demands increase, these applications become more complicated and brittle, exposing risks and compromising availability. With the popularity of software as a service, scaling has never been more important. Updated with an expanded focus on modern architecture paradigms such as microservices and cloud computing, this practical guide provides techniques for building systems that can handle huge quantities of traffic, data, and demand—without affecting the quality your customers expect. Architects, managers, and directors in engineering and operations organizations will learn how to build applications at scale that run more smoothly and reliably to meet the needs of customers. Learn how scaling affects the availability of your services, why that matters, and how to improve it Dive into a modern service-based application architecture that ensures high availability and reduces the effects of service failures Explore the Single Team Owned Service Architecture paradigm (STOSA)—a model for scaling your development organization in tandem with your application

Understand, measure, and mitigate risk in your systems Use the cloud to build highly scalable applications Every day, companies struggle to scale critical applications. As traffic volume and data demands increase, these applications become more complicated and brittle, exposing risks and compromising availability. And with the popularity of software as a service, scaling has never been more important. Updated with an expanded focus on modern architecture paradigms such as microservices and cloud computing, this practical guide provides techniques for building systems that can handle huge quantities of traffic, data, and demand without affecting the quality your customers expect. Author Lee Atchison shows architects, managers, and directors in both engineering and operations organizations how to build applications at scale that run more smoothly and reliably and meet the needs of your customers. See how scaling affects the availability of your services, why that matters, and how to improve it Dive into a modern service-based application architecture that ensures high availability and reduces the effects of service failures Explore the Single Team Owned Service Architecture paradigm (STOSA)-a model for scaling your development organization as your application scales Understand, measure, and mitigate risk in your systems Use the cloud to build highly scalable applications. A software architect's digest of core practices, pragmatically applied Designing effective architecture is your best strategy for

managing project complexity-and improving your results. But the principles and practices of software architecting-what the authors call the "science of hard decisions"-have been evolving for cloud, mobile, and other shifts. Now fully revised and updated, this book shares the knowledge and real-world perspectives that enable you to design for success-and deliver more successful solutions. In this fully updated Second Edition, you will: Learn how only a deep understanding of domain can lead to appropriate architecture Examine domain-driven design in both theory and implementation Shift your approach to code first, model later-including multilayer architecture Capture the benefits of prioritizing software maintainability See how readability, testability, and extensibility lead to code quality Take a user experience (UX) first approach, rather than designing for data Review patterns for organizing business logic Use event sourcing and CQRS together to model complex business domains more effectively Delve inside the persistence layer, including patterns and implementation. This book covers the most critical 24 NFRs that are applicable to IT applications and systems>About This Book* Explains three stages of nonfunctional requirements, that is, analysis, architecture, and assessment* In-depth knowledge of NFR framework and taxonomy that provides guidance around the modelling phase for the NFRs* Coverage of 24 critical and pivotal NFRs, including the analysis, architecture, and

assessment.Who This Book Is ForThe primary audience for this title are the gamut of roles starting from IT consultant to chief architects who are responsible to deliver strategic, tactical, and operational engagements for fortune 100 customers worldwide. Nonfunctional requirements are the key to any software / IT program. They cannot be overlooked or ignored. The book provides a comprehensive approach from analysis, architecture, and measurement of nonfunctional requirements. The book includes considerations for bespoke (Java, .Net, and COTS applications). These are applicable to IT applications from various domains. The book outlines the methodology for capturing the NFRs and also describes a framework that can be leveraged by analysts and architects for tackling NFRs for various engagements. The audience for this book include business analysts, enterprise architects, business architects, solution architects, technical architects/designers, domain/security/integration architects, software developers, support engineers and test engineers, technical project managers, project leads/technical leads/technical project managers, and students from the computer science/IT streamWhat You Will Learn* Learn techniques related to the analysis, architecture, and monitoring of NFRs* Understand the various tools, techniques, and processes in order to improve the overall quality of the desired outcomes* Embrace the best practices

of architecting, metrics, and success factors for NFRs* Identify the common pitfalls to be avoided and the patterns to leverage* Understand taxonomy and framework for NFRs* Learn the design guidelines for architecting applications and systems relating to NFRs* Abstract different methodologies to analyze and gather NFRsIn DetailNon-functional Requirements are key to any software/IT program and cannot be overlooked or ignored. This book provides a comprehensive approach to the analysis, architecture, and measurement of NFRs. It includes considerations for bespoke Java, .NET, and COTS applications that are applicable to IT applications/systems in different domains.The book outlines the methodology for capturing the NFRs and also describes a framework that can be leveraged by analysts and architects for tackling NFRs for various engagements.This book starts off by explaining the various KPIs, taxonomies, and methods for identifying NFRs. Learn the design guidelines for architecting applications and systems relating to NFRs and design principles to achieve the desired outcome. We will then move on to various key tiers/layers and patterns pertaining to the business, database, and integrating tiers. After this, we will dive deep into the topics pertaining to techniques related to monitoring and measurement of NFRs, such as sizing, analytical modeling, and quality assurance.Lastly, we end the book by describing some pivotal NFRs and checklists

for the software quality attributes related to the business, application, data, and infrastructure domains.Style and approachThe book takes a pragmatic approach, describing various techniques related to the analysis of NFRs, the architecture of NFRs, and assessment of NFRs. This superb text provides a systematic way to support the system architect in this job. Therefore, an iterative system-level design approach is defined where iterations are based on fast and accurate estimations or predictions of area, performance and energy consumption. This method is illustrated with a concrete real life example of multi-carrier communication. This book is the result of a Ph.D. thesis, which is part of the UbiCom project at Delft University of Technology. Architect and design data-intensive applications and, in the process, learn how to collect, process, store, govern, and expose data for a variety of use cases Key Features Integrate the data-intensive approach into your application architecture Create a robust application layout with effective messaging and data querying architecture Enable smooth data flow and make the data of your application intensive and fast Book Description Are you an architect or a developer who looks at your own applications gingerly while browsing through Facebook and applauding it silently for its data-intensive, yet fluent and efficient, behaviour? This book is your gateway to build smart data-intensive systems by incorporating the core data-intensive architectural principles, patterns, and

techniques directly into your application architecture. This book starts by taking you through the primary design challenges involved with architecting data-intensive applications. You will learn how to implement data curation and data dissemination, depending on the volume of your data. You will then implement your application architecture one step at a time. You will get to grips with implementing the correct message delivery protocols and creating a data layer that doesn't fail when running high traffic. This book will show you how you can divide your application into layers, each of which adheres to the single responsibility principle. By the end of this book, you will learn to streamline your thoughts and make the right choice in terms of technologies and architectural principles based on the problem at hand. What you will learn Understand how to envision a data-intensive system Identify and compare the non-functional requirements of a data collection component Understand patterns involving data processing, as well as technologies that help to speed up the development of data processing systems Understand how to implement Data Governance policies at design time using various Open Source Tools Recognize the anti-patterns to avoid while designing a data store for applications Understand the different data dissemination technologies available to query the data in an efficient manner Implement a simple data governance policy that can be extended using Apache Falcon Who this book is

for This book is for developers and data architects who have to code, test, deploy, and/or maintain large-scale, high data volume applications. It is also useful for system architects who need to understand various non-functional aspects revolving around Data Intensive Systems. Get expert architectural and design-level guidance for building distributed solutions with the Microsoft® .NET Framework—learning how to synthesize your knowledge of application development, servers, and infrastructure and business requirements. This guide assumes you are familiar with .NET component development and the basic principles of a layered distributed application design. It examines architectural issues and solution design for a range of project stakeholders—whether you build and design applications and services, recommend appropriate technologies and products for applications and services, make design decisions to meet functional and nonfunctional requirements, or choose appropriate communications mechanisms for applications and services—providing straightforward guidance, recommendations, and best practices gleaned from real-world solution development. All PATTERNS & PRACTICES guides are reviewed and approved by Microsoft engineering teams, consultants, partners, and customers—delivering accurate, real-world information that's been technically validated and tested. Every day, companies struggle to scale critical applications. As traffic volume and

data demands increase, these applications become more complicated and brittle, exposing risks and compromising availability. This practical guide shows IT, devops, and system reliability managers how to prevent an application from becoming slow, inconsistent, or downright unavailable as it grows. Scaling isn't just about handling more users; it's also about managing risk and ensuring availability. Author Lee Atchison provides basic techniques for building applications that can handle huge quantities of traffic, data, and demand without affecting the quality your customers expect. In five parts, this book explores: Availability: learn techniques for building highly available applications, and for tracking and improving availability going forward Risk management: identify, mitigate, and manage risks in your application, test your recovery/disaster plans, and build out systems that contain fewer risks Services and microservices: understand the value of services for building complicated applications that need to operate at higher scale Scaling applications: assign services to specific teams, label the criticalness of each service, and devise failure scenarios and recovery plans Cloud services: understand the structure of cloud-based services, resource allocation, and service distribution Get the information you need to make good SharePoint design decisions Determine the best design for your SharePoint implementation by gaining a deeper understanding of how the platform works. Written by a team of SharePoint experts,

this practical guide introduces the Microsoft SharePoint 2013 architecture, and walks you through design considerations for planning and building a custom SharePoint solution. It's ideal for IT professionals, whether or not you have experience with previous versions of SharePoint. Discover how to: Dive deeper into SharePoint 2013 architecture components Gather requirements for a solution that fits your needs Upgrade from Microsoft SharePoint 2010 to 2013 Design service applications for performance and redundancy Provide the right storage plan for a SharePoint farm Map authentication and authorization requirements to your solution Take steps necessary to design a secure implementation Plan your business continuity management strategy Validate your SharePoint architecture to ensure success A complete guide for every .NET developer who wants to move into cloud computing with Windows Azure, this book walks the user through the cloud applications that respond to today's development face. There are numerous publications which introduce and discuss the Internet of Things (IoT). In the midst of these, this work has several unique characteristics which should change the reader's perspective, and in particular, provide a more profound understanding of the impact of the IoT on society. Dependable IoT for Human and Industry covers the main aspects of Internet of Things and IoT based systems such as global issues of applications, modeling, development and implementation of dependable IoT for

different human and industry domains. Technical topics discussed in the book include: Introduction in Internet of vital and trust ThingsModelling and assessment techniques for dependable and secure IoT systemsArchitecting and development of IoT systemsImplementation of IoT for smart cities and drone fleets; business and blockchain, transport and industryTraining courses and education experience on Internet and Web of Thing Your guide to planning and executing a complete mobile web strategy Revisit your approach to the mobile web—and deliver effective solutions that reach customers and clients on a variety of mobile devices. In this practical guide, web development luminary Dino Esposito shows you how to develop a solid mobile strategy for the enterprise, starting with an effective mobile website. You'll receive essential architectural and implementation guidance, as well as mobile-specific design patterns for building cross-platform and native applications. Discover how to: Architect a website accessible from many different mobile devices Implement design patterns specific to mobile app development Examine tools that enable you to write one codebase for many platforms Use technologies for building Windows Phone, iPhone, and Android apps Develop cross-platform app features, such as localization and offline behavior PrefaceTo understand anything, you should not try to understand everything. — Aristotle The whole is greater than the sum of the parts; the part is greater

than a fraction of the whole. — Aristotle Architecting is a challenging process of abstraction, composition, modularity, and simplification to create an architecture specification. An architecture specification captures the essence and definition of the system: understanding, parts, and the relationships among the parts. An architecture specification defines how a system solves a business problem within the scope of the business. — Putman Leave the beaten track occasionally and dive into the woods. You will be certain to find something that you have never seen before. — Alexander Graham Bell There are large gaps in the theory and practice of software architecture and engineering. Much is published about the representation of a software architecture, such as the Unified Modeling Language (UML), but little is available about the specification for a software architecture. Software engineering methods of domain engineering, process modeling languages, and well-formed patterns of reasoning aid in the specification of an architecture. The Reference Model of Open Distributed Processing (RM-ODP) defines the standard reference model for distributed software systems architectures, based on object-oriented techniques, accepted at the international level. RM-ODP is a standard adopted by the International Standards Organization (ISO) and the International Telecommunications Union (ITU). RM-ODP is embedded and used actively in mission-critical

systems industries such as in telecommunications, in health care, on Wall Street (financial services industry), in various Government systems (Logistics), in European Government Agencies such as UK Aviation control systems, as a foundation for the Object Management Group (OMG) Object Management Architecture (OMA), for defining enterprise architectures, and for defining software architectures. The software systems architecture work that is emerging, and is focused either at the component level or at the systems level, provides a key resource for architecting. This is enhanced by the architecting techniques of RM-ODP. This book assembles these great ideas, explains what they mean, and shows how to use them for practical benefit, along with real-world case study examples. By using the RM-ODP specification constructs, associated languages, architecture patterns of reasoning, semantic behavior specification, and conformance testing abilities, readers will be able to architect their specific systems based on the RM-ODP specification foundations, and specify architectures that work. One of the purposes of this book is to provide the approach to using the RM-ODP foundations in architecting and specifying a distributed processing system that addresses such key properties as interoperability, dependability, portability, integration, composability, scalability, transparency, behavior specification, quality of service, policy management, federation, and conformance

validation. Another purpose of this book is to explain the underlying foundations for creating an architectural specification. These foundations come not only from RM-ODP, but also from the current work in software systems architecture. Another purpose is to guide the reader to understand the importance and benefits of creating an architecture specification for an enterprise. Yet another purpose is to provide the reader with the principles to construct software systems architecture (at both introductory and in-depth levels). By applying the proven techniques of RM-ODP for what makes a good architecture, readers will be able to build their own tailored architectures, and clearly represent them in UML or some other tool, with an understanding of the underlying principles. Practitioners of RM-ODP have found that the standard is extremely beneficial in guiding architecture definition and providing standard terminology/principles for distributed object applications and infrastructures from an enterprise perspective.

Outstanding Features
This book is intended to provide valuable insight into successful architecture specification by describing an unprecedented foundation to accomplish this task, describing the use of the foundation, explaining the relationships of the concepts of architecting, explaining the relationships of the concepts of distributed processing, and identifying the right methods and possible tools for architecting. All material for the book has been derived from

actual experiences. A medical case study is used throughout the book in ever increasing detailed specification. This medical case study is based on actual experience of the author. In addition, many metamodels are provided to represent the concepts of RM-ODP. All of these metamodels are contributions from the author. This is information that readers can use and apply in their architecting today. RM-ODP provides a reference framework, grammars, methods of abstraction and composition, and separation of concerns to achieve an architecture specification of the system. RM-ODP provides a framework for this separation, using viewpoints, as well as separating out certain decisions (e.g., product decisions) until later. Further, the reference model provides a set of definitions, which always aids in communicating with others. There is little in the literature about RM-ODP or architecture specification, and certainly not a book dedicated as a tutorial of these subjects. Now there is. In summary, this book offers the following:

- How to manage the architecting process in the lifecycle of a system
- How to solve many architecture reuse and cost-effectiveness problems
- How to create a business specification
- How to understand and use the concepts of distributed processing in an architecture
- How to architect effectively
- How to specify an architecture
- How to understand and specify semantic behavior and nonfunctional properties of a system (the "ilities")
- How to provide the right level of detail

in an architecture specification

- How to ensure the implementation conforms to the architecture specification
- How to use RM-ODP effectively
- How to use popular tools, such as UML, to describe an architecture

A definitive tutorial of RM-ODP

Audience This book is designed for: Those in the Distributed Software Systems Architecture community who are interested in a methodology for using proven architecture principles. Professional software architects who are looking for new ideas about architecting a system. Within this book, the reader will find discussions of the techniques for architecting, for creating an architecture specification, and RM-ODP's relationship to other architecture frameworks. Program managers interested in how to create a cost-effective architecture within their enterprise that focuses on the needs of the enterprise and solves an enterprise problem. They will learn how do to do this through an overview of RM-ODP, the program benefits for using it, and where RM-ODP fits in the system lifecycle process. Systems engineers interested in the lifecycle approach to enterprise architecture specification. Experienced engineers interested in expanding their understanding of how to create a valid architecture specification and gain an understanding of the distributed processing system concepts, why certain constructions are valid and why some are not, what is to be specified and how, and some new ideas and approaches to architecting a system. The reader will be able to develop a collection

of useful distributed processing architecting techniques that expand upon the current software systems architecture capabilities. Developers interested in the practice of architecture specification and aligning current technology to achieve a workable system, while allowing evolutionary changes in technology solutions. Researchers interested in solutions and aids for furthering the research work in architecture specification. Individuals in the software community who are generally interested in the application of an architecture method. Readers will find examples of the applications of RM-ODP and specific analysis techniques. The expected audience will be novice and mid-level program managers, software engineers, those in the IEEE, DoD, research communities, consortia, and general architecture readers. This book can be used as a textbook and reference book for studies in the methods of architecture; for graduate studies in software architecture specification; for training information about software architecture and RM-ODP; for further education of consultants, integration specialists, and acquisition managers who need to approve and fund such work; and for researchers who are expanding the discipline of software architecture. The inclusion of RM-ODP will bring to the U.S., principally, the outstanding work that was accomplished by the international standards working group. In brief, the RM-ODP principles form a solution set and foundation for all software architecting endeavors. It is the

formalized framework for this topic, and at the International Standard (IS) level of acceptance. It forms a solution set and foundation for reuse of design patterns to provide cost-effective software architecture. It is the process for this topic, but has never before been described in a book. Many program managers (who typically set the stage as to the methodology of choice for a project), software engineers, and researchers in academia and in DARPA are unaware of the power and solutions provided by the standard, or the process of identifying and instantiating reuse of all the expensive assets of architecture. Many do not realize that there is a language for specifying software-intensive distributed processing, and that language is precisely and rigorously defined in RM-ODP for reuse. Those debating definitions for architecture, system, interface, and others can reuse the internationally agreed upon definitions. Finally, with the inclusion of RM-ODP and its relationship to other architecture frameworks, it is expected that many software engineers will benefit from reading this work, since it will be the first time these subjects are discussed in print. How to Use This Book This book is divided into four parts, aimed at increasing levels of detail. Part One provides an overview of the field of software architecture, an RM-ODP primer for managers, and an RM-ODP primer for architects. Part Two provides an in-depth study of RM-ODP and how to use it. Areas of importance and utility from RM-ODP are highlighted. Ambiguity in RM-ODP is

highlighted. Warnings in the use of RM-ODP are highlighted. Part Three provides a discussion of the principal architecture patterns of use, arranged by topic. Several of these patterns of use come from emerging work under the initiative of RM-ODP, as well as lessons learned from the practice of RM-ODP. These patterns of reasoning used by the architect are founded on the principals of RM-ODP, as discussed in Part Two of the book. Part Four concludes with relating RM-ODP to other architecture methods. It also provides emerging technologies to further the patterns of reasoning for use in architecting, and a set of architecting heuristics. The information contained in this book is organized in a manner that provides clear insight into the world of distributed software-intensive processing architecture for designers and developers who are familiar with information systems technology, but want to know more about how to build a good architecture. Starting with a tutorial about software architecture, and then a tutorial about the standard for software architecture, the reader need not be an expert in the area of international standards, RM-ODP, software architecture, or specific technologies. The book goes on to address the needs of the variety of readers for which it is intended. Each chapter in the book provides an overview of the subject of the chapter, as well as a summary. For those who wish a broad brush exposure to RM-ODP, the primers of Part One provide this, as well as the overviews and summaries in each

chapter of interest. As each chapter progresses, in Parts Two and Three, more and more in-depth detail is provided. The readings of these chapters are aimed at those who wish to know the technical details of a topic. There are two case studies used throughout the book, at various levels of detail. The primary case study is a Hospital enterprise, based upon the author's experience with the medical profession. A secondary case study is an airline reservation system, also based upon the author's experience. These case studies are used to describe the concepts of RM-ODP, and to show how they might be used. Architecting High Performing, Scalable and Available Enterprise Web Applications provides in-depth insights into techniques for achieving desired scalability, availability and performance quality goals for enterprise web applications. The book provides an integrated 360-degree view of achieving and maintaining these attributes through practical, proven patterns, novel models, best practices, performance strategies, and continuous improvement methodologies and case studies. The author shares his years of experience in application security, enterprise application testing, caching techniques, production operations and maintenance, and efficient project management techniques. Delivers holistic view of scalability, availability and security, caching, testing and project management Includes patterns and frameworks that are illustrated with end-to-end case studies Offers tips and troubleshooting methods for

enterprise application testing, security, caching, production operations and project management Exploration of synergies between techniques and methodologies to achieve end-to-end availability, scalability, performance and security quality attributes 360-degree viewpoint approach for achieving overall quality Practitioner viewpoint on proven patterns, techniques, methodologies, models and best practices. Bulleted summary and tabular representation of concepts for effective understanding Production operations and troubleshooting tips The way developers design, build, and run software has changed significantly with the evolution of microservices and containers. These modern architectures use new primitives that require a different set of practices than most developers, tech leads, and architects are accustomed to. With this focused guide, Bilgin Ibryam and Roland Huß from Red Hat provide common reusable elements, patterns, principles, and practices for designing and implementing cloud-native applications on Kubernetes. Each pattern includes a description of the problem and a proposed solution with Kubernetes specifics. Many patterns are also backed by concrete code examples. This book is ideal for developers already familiar with basic Kubernetes concepts who want to learn common cloud native patterns. You'll learn about the following pattern categories: Foundational patterns cover the core principles and practices for building container-based

cloud-native applications. Behavioral patterns explore finer-grained concepts for managing various types of container and platform interactions. Structural patterns help you organize containers within a pod, the atom of the Kubernetes platform. Configuration patterns provide insight into how application configurations can be handled in Kubernetes. Advanced patterns covers more advanced topics such as extending the platform with operators. Your text simplified as the essential facts to prepare you for your exams. Over 2,000 highly probable test items. Embarking on a career (or hobby) in app design can be intimidating, especially when information is scattered, confusing and hard to find. Designing Mobile Apps is a complete guide for those getting started, providing step-by-step details on how to design useful, attractive mobile applications. Authors Javier "Simón" Cuello and José Vittone share their experiences in the world of app design, revealing tricks of the trade based on their work at companies like Yahoo, Zara and Telefónica. Apps for Android, iOS and Windows Phone How do operating systems differ? How does one go about transferring from one OS to another? Designing Mobile Apps answers these questions and more, using real-life examples and visual comparisons. The Complete Design Process From the initial concept to app store publication, Designing Mobile Apps covers the full app creation process in simple, easy-to-use terms. It includes numerous examples and

doesn't use a single line of code. Interviews with Top Professionals Designing Mobile Apps contains interviews with leading designers and developers, including Loren Brichter, Irene Pereyra, Erik Spiekermann and Dustin Mierau. They share the secrets they've learned while working at some of the best companies in the world. Written Especially for Designers and Developers Not sure how to prepare your design for the programmer? Know how to program, but fuzzy on the details in making your app truly appealing and easy to use? With Designing Mobile Apps, designers and developers can learn all they need to know to work together and create a successful app. Prepare for Microsoft Exam 70-535—and help demonstrate your real-world mastery of architecting complete cloud solutions on the Microsoft Azure platform. Designed for architects and other cloud professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Design compute infrastructure Design data implementation Design networking implementation Design security and identity solutions Design solutions by using platform services Design for operations This Microsoft Exam Ref: Organizes its coverage by exam skills Features strategic, what-if scenarios to challenge you Includes DevOps and hybrid technologies and scenarios Assumes you have experience building infrastructure and

applications on the Microsoft Azure platform, and understand the services it offers Make the right architectural decisions up front—and improve the quality and reliability of your results. Led by two enterprise programming experts, you'll learn how to apply the patterns and techniques that help control project complexity—and make systems easier to build, support, and upgrade—right from the start. Get pragmatic architectural guidance on how to: Build testability, maintainability, and security into your system early in the design Expose business logic through a service-oriented interface Choose the best pattern for organizing business logic and behavior Review and apply the patterns for separating the UI and presentation logic Delve deep into the patterns and practices for the data access layer Tackle the impedance mismatch between objects and data Minimize development effort and avoid over-engineering—and deliver more robust results Get code samples on the Web. Many of the initial developments towards the Internet of Things have focused on the combination of Auto-ID and networked infrastructures in business-to-business logistics and product lifecycle applications. However, the Internet of Things is more than a business tool for managing business processes more efficiently and more effectively - it will also enable a more convenient way of life. Since the term Internet of Things first came to attention when the Auto-ID Center launched their initial vision for the EPC network for automatically

identifying and tracing the flow of goods within supply-chains, increasing numbers of researchers and practitioners have further developed this vision. The authors in this book provide a research perspective on current and future developments in the Internet of Things. The different chapters cover a broad range of topics from system design aspects and core architectural approaches to end-user participation, business perspectives and applications. Design scalable and high-performance enterprise applications using the latest features of C# 9 and .NET 5 Key FeaturesGain fundamental and comprehensive software architecture knowledge and the skillset to create fully modular appsDesign high-performance software systems using the latest features of .NET 5 and C# 9Solve scalability problems in web apps using enterprise architecture patternsBook Description Software architecture is the practice of implementing structures and systems that streamline the software development process and improve the quality of an app. This fully revised and expanded second edition, featuring the latest features of .NET 5 and C# 9, enables you to acquire the key skills, knowledge, and best practices required to become an effective software architect. This second edition features additional explanation of the principles of Software architecture, including new chapters on Azure Service Fabric, Kubernetes, and Blazor. It also includes more discussion on security, microservices, and

DevOps, including GitHub deployments for the software development cycle. You will begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non-functional requirements. Next, you will explore how to carefully choose a cloud solution for your infrastructure, along with the factors that will help you manage your app in a cloud-based environment. Finally, you will discover software design patterns and various software approaches that will allow you to solve common problems faced during development. By the end of this book, you will be able to build and deliver highly scalable enterprise-ready apps that meet your organization's business requirements. What you will learn Use different techniques to overcome real-world architectural challenges and solve design consideration issues Apply architectural approaches such as layered architecture, service-oriented architecture (SOA), and microservices Leverage tools such as containers, Docker, Kubernetes, and Blazor to manage microservices effectively Get up to speed with Azure tools and features for delivering global solutions Program and maintain Azure Functions using C# 9 and its latest features Understand when it is best to use test-driven development (TDD) as an approach for software development Write automated functional test cases Get the best of DevOps principles to enable CI/CD environments Who this book is for This book is for engineers and

senior software developers aspiring to become architects or looking to build enterprise applications with the .NET Stack. Basic familiarity with C# and .NET is required to get the most out of this book. Master powerful new approaches to web architecture, design, and user experience This book presents a pragmatic, problem-driven, user-focused approach to planning, designing, and building dynamic web solutions. You'll learn how to gain maximum value from Domain-Driven Design (DDD), define optimal supporting architecture, and succeed with modern UX-first design approaches. The author guides you through choosing and implementing specific technologies and addresses key user-experience topics, including mobile-friendly and responsive design. You'll learn how to gain more value from existing Microsoft technologies such as ASP.NET MVC and SignalR by using them alongside other technologies such as Bootstrap, AJAX, JSON, and JQuery. By using these techniques and understanding the new ASP.NET Core 1.0, you can quickly build advanced web solutions that solve today's problems and deliver an outstanding user experience. Microsoft MVP Dino Esposito shows you how to: Plan websites and web apps to mirror real-world social and business processes Use DDD to dissect and master the complexity of business domains Use UX-Driven Design to reduce costs and give customers what they want Realistically compare server-side and client-side web

paradigms Get started with the new ASP.NET Core 1.0 Simplify modern visual webpage construction with Bootstrap Master practical, efficient techniques for running ASP.NET MVC projects Consider new options for implementing persistence and working with data models Understand Responsive Web Design's pros, cons, and tradeoffs Build truly mobile-friendly, mobile-optimized websites About This Book For experienced developers and solution architects who want to plan and develop web solutions more effectively Assumes basic familiarity with the Microsoft web development stack

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