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Beginning C# 7 Programming with Visual Studio 2017 IGI Global Investigates the nature and history of dynamic processes essential to understanding the need for flexibility and adaptability as well as the requirements to improve solutions.

Enterprise Application Architecture with .NET

Core The Enterprise **CloudBest Practices for** Transforming Legacy IT The popularity of enterprise architecture (EA) has increased in the last two decades, in both business and academic domains. Despite the cumulative interest from all sectors, the implementation and practice of EA have been entangled with numerous challenges and complexities. Consequently, some organisations continue to theorise the concept, which has ramifications on practice and return on investment (ROI). This has led to many studies that have been conducted, to understand the theories such as actorcomplexities impacting the implementation and practice of EA in organisations. Yet, the trajectory of some convolutions remains mystery in many quarters. to articulate the value of EA in many environments. Hence many organisations find it difficult to apply EA for strategic management of modern information technology (IT) solutions. Enterprise Architecture for Strategic Management of **Modern IT Solutions**

provides guidance on how to employ EA in deploying and managing IT solutions from pragmatic and implementable strategies' perspectives. Until now, implementation and practice of EA have been slow, despite its growing popularity and interest from all sectors. The author employs sociotechnical network theory (ANT) and structuration theory (ST) as lenses to examine and explain why and how challenges and complexities exist and derail the This attributes to the struggle implementation or practice of EA in organisations. By doing so, this serves to enable practitioners and readers to gain fresh insights on why the challenges exist and how they can be addressed in creating collaborative capabilities for business enhancement, sustainability, and

competitiveness. The book provides detailed insights on how to apply EA for organisational purposes, from three main fronts. First, it explains the implications that customization, performance, lack of understanding of EA have on organisational activities and processes. Second, it examines the challenges and complexities that hinder the implementation and practice of EA in organisations. Third, it proposes models and frameworks on how EA can be applied for strategic management of modern IT solutions in organisations. Written for postgraduates, researchers, academics, and professionals in the fields of EA, IT, and information systems, this book provides a from less than a valuable resource that will enable and enhance implementation and practice of EA including future studies.

Agile Data Warehousing for the Enterprise John Wiley & Sons

Object storage is the primary storage solution that is used in the cloud and on-premises solutions as a central storage platform for unstructured data. IBM® Cloud Object Storage (COS) is a software-defined storage platform that breaks down barriers for storing massive amounts of data by optimizing the placement of data on commodity x86

servers across the enterprise. This IBM Redbooks® publication describes the major coverage: concepts, products, features, use case scenarios, deployment options, configuration details, initial and scalability considerations of IBM Cloud® Object Storage on-premises offering. For more information about the IBM Cloud Object Storage architecture and technology that is behind the product, see **IBM Cloud Object Storage** Concepts and Architecture: System Edition, REDP-5537-02. The target

audience for this publication is IBM Cloud Object Storage IT specialists and storage administrators.

Associate Exam IBM Redbooks Internet attack on computer systems is pervasive. It can take minute to as much as eight hours for an unprotected machine connected to the Internet to be completely compromised. It is the information security architect's job to prevent attacks by

securing computer systems. This book describes both the process and the practice of as The Enterprise Cloud IGI Global

The definitive guide to architecting reliable, effective composite applications and services with TIBCO products and technologies * *Pragmatic, proven, comprehensive technologies, service design, service architecture patterns. federation, and much more *The official guide for TIBCO's new two-day education course covering these topics. *By Dr. Paul C. Brown, TIBCO's Principal Software Architect: the follow-up to his TIBCO Architecture Fundamentals. 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; orchestration; security; performance; high availability; fault tolerance, and monitoring. Brown concludes by presenting three sample advanced composite application architectures. Big Data Networked Storage Solution for Hadoop IBM Redbooks Leverage Xamarin. Forms to build iOS and Android apps using a single, cross-platform approach. This book is the XAML companion to the C# quide Xamarin Mobile Application Development. You'll begin with an overview of Xamarin.Forms, then move on to an in-depth XAML (eXtensible Application Markup Language) primer covering syntax, namespaces, markup extensions, constructors, and the XAML standard. XAML gives us both the power of decoupled UI development and the direct use of Xamarin. Forms elements. This book explores the core of the Xamarin.Forms mobile app UI: using layouts and FlexLayouts to position controls and views to design and build screens, formatting your UI using resource dictionaries, styles, themes and CSS, then coding user interactions with behaviors, commands, and triggers. You'll see how to use XAML to build sophisticated. robust cross-platform mobile apps and help your user get around your app using

Xamarin. Forms navigation patterns. Building Xamarin. Forms Mobile Apps Using XAML explains how to bind UI to data models using data binding and using the MVVM pattern, and how to customize UI elements for each platform using industry-standard menus, effects, custom renderers, and native view declaration. What You Will Learn Creat world-class mobile apps for iOS and Android using C# and XAML Build a UI decoupled from C# code and XAML Design UI layouts such as FrameLayout, controls, lists, and navigation patterns Style your app using resource dictionaries, styles, themes, and CSS Customize controls to have platform-specific features using effects, custom renderers, and native views Who This Book Is For XAML and C# developers, architects, and technical managers as well as many Android and iOS developers Salesforce B2C Solution Architect's Handbook Apress Learn from the AWS subjectmatter experts, apply real-world scenarios and clear the AWS **Certified Solutions Architect** Associate exam Key Features Build highly reliable and scalable workloads on the AWS platform Pass the exam in less time and with confidence Get up and running with building and managing applications on the AWS platform Book Description Amazon Web Services (AWS) is currently the leader in the public cloud market. With an increasing global interest in leveraging cloud infrastructure,

the AWS Cloud from Amazon offers a cutting-edge platform for architecting, building, and deploying web-scale cloud applications. As more the rate of cloud platform adoption increases. so does the need for cloud certification. The AWS Certified Solution Architect - Associate Guide is your one-stop solution to gaining certification. Once you have grasped what AWS and its prerequisites are, you will get insights into different types of AWS services such as Amazon S3, EC2, VPC, SNS, and more to get you prepared with core Amazon services. You will then move on to understanding how to design and deploy highly scalable applications. Finally, you will study security concepts along with the AWS best practices and mock papers to test your knowledge. By the end of this book, you will not only be fully prepared to pass the AWS Certified Solutions Architect — Associate exam but also capable of building secure and reliable applications. What you will learn Explore AWS terminology and identity and access management Acquaint yourself with important cloud services and features in categories such as compute, network, storage, and databases Define access control to secure AWS resources and set up efficient monitoring Back up your database and ensure high availability by understanding all of the database-related services in the AWS Cloud Integrate AWS with your applications to meet and exceed non-functional requirements Build and deploy costeffective and highly available applications Who this book is for The AWS Certified Solutions Architect — Associate Guide is for

you if you are an IT professional or Solutions Architect wanting to pass the AWS Certified Solution Architect — Associate 2018 exam. This book is also for developers looking to start building scalable applications on AWS E-Business and Distributed Systems Handbook IGI Global Validate your AWS skills.

This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services, and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, access to Sybex's interactive online learning environment, and much more. This official study guide, written by AWS experts, covers exam concepts, and provides key review on exam topics, including: Mapping Multi-Tier Architectures to AWS Services, such as web/app servers, firewalls, caches and load balancers Understanding managed RDBMS through AWS RDS (MySQL, Oracle, SQL Server, Postgres, Aurora) responsibilities of a .NET **Understanding Loose**

Coupling and Stateless Systems solution architecture Comparing Different Consistency Models in AWS Services Understanding how AWS CloudFront can make your application more cost efficient, faster and secure Implementing Route tables, NAT, and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute, Networking, Storage, and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Deploying and Managing Services with tools such as CloudFormation, OpsWorks and Elastic Beanstalk. Learn from the AWS subject-matter experts, review with proven study tools, and apply realworld scenarios. If you are looking to take the AWS **Certified Solutions Architect** Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career. **CRC Press**

principles, DevOps solutions, and design techniques and standards with hands-on examples of design patterns Key Features Find out what are the essential personality traits and responsibilities of a Access Control Lists, Firewalls, solution architect Become wellversed with architecture principles and modern design patterns with hands-on examples Design modern web solutions and make the most of Azure DevOps to automate your development life cycle **Book Description** Understanding solution architecture is a must to build and integrate robust systems to Technologies Relating to AWS 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 explore

Learn about the

solution architect, and what makes a great .NET solution architect. As you make progress through the chapters, intermediate-level solution you'll understand the principles of solution architecture and how to design .NET solutions will find this a solution, and explore designing layers and microservices. You'll complete in Turbulent Environments 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 learn Understand the role and core responsibilities of a .NET solution architect Study popular UML (Unified Modeling Language) diagrams for solution architecture Work with modern design patterns with the help of hands-on examples Become familiar with microservices and designing layers Discover how to design modern web solutions Automate your development life cycle with Azure DevOps Who this book accessibility. Next, you are 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 architects looking for tips and tricks to build large-scale book useful.

Techniques for Adaptability **IBM Redbooks** Although enterprise mobility is in high demand across domains, an absence of experts who have worked on enterprise mobility has resulted in a lack of books on the subject. A Comprehensive Guide to Enterprise Mobility fills this void. It supplies authoritative guidance on all aspects of enterprise mobilityfrom technical aspects and applications to Web Design and Marketing Solutions for Business Websites John Wiley & Sons

need to know to create effective web sites for businesses of all sizes. It 's packed with useful tips and practical examples. First you are taken through the planning stage, including overall site structure, grouping content, using content and language effectively, and planning for shown how to effectively design the different parts of your site as well as how to add specialized improvements, including feedback forms and search

This book teaches you all you

functionality. The examples focus largely on CSS and HTML, but the principles are applicable to any site and some useful Flash examples are also provided. A Comprehensive Guide to **Enterprise Mobility IBM Redbooks** Pro Freeware and Open Source Solutions for Business is a practical guide for the small business owner seeking viable alternative to expensive commercial software packages and subscriptions. This comprehensive look at the powerful alternatives to expensive proprietary software provides an illustrated overview of no-cost software solutions. In this book you will find free and open source solutions for office productivity, PDF creation, accounting, image editing and graphic design, desktop publishing, 3D design, CAD, audio and video editing, website and blog creation, customer relationship management, point of sale, networking and security, and alternatives to the Windows and Macintosh operating systems. This guide helps free the cost-conscious business owner from the bonds of expensive proprietary software by exploring the free and powerful alternatives that exist. You can save a substantial sums of money by replacing just a few commercial software titles with free and open source solutions. Learn how with Pro Freeware and Open Source Solutions for Business today. Professional SQL Server Reporting Services Apress Across numerous vertical industries, enterprises are challenged to improve processing efficiency as

business communities to their internal systems and vice versa, Sterling and IBM simplify management and expansion of the external communities, accommodate customer and supplier preferences, govern the flow of implementing an integration information, enforce policy and standards, and protect sensitive information. Throughout this process, external partners must be onboarded and off-boarded. information must flow across multiple communications infrastructures, and data must be mapped and transformed for consumption across multiple applications. Some transactions require synchronous or real-time processing while others are of a more periodic nature. For some classes of customer or supplier, the enterprise might prefer a locally-managed, onpremise solution. For some types of communities (often small businesses), an as-a-Service solution might be the best option. Many large enterprises combine the onpremise and as-a-Service approach to serve different categories of business partners (customers or suppliers). This IBM® Redbooks® publication focuses on solutions for end-to-end integration in complex value chains and presents several

transactions flow from their

end-to-end common integration scenarios with IBM benefits, and the level of WebSphere® portfolios. We believe that this publication will be a reference for IT Specialists and IT Architects solution architecture involving myths about self-service BI IBM Sterling and IBM WebSphere portfolios. Mobile Cross-Platform XAML and Xamarin. Forms Fundamentals "O'Reilly Media, Inc." Clear your doubts about Business Intelligence and start your new journey KEY **FEATURES** Includes successful methods and innovative ideas to achieve success with BI. Vendorneutral, unbiased, and based on experience. Highlights practical challenges in BI Covers financial journeys. aspects along with technical aspects. **Showcases** multiple BI organization models and the structure of BI teams. DESCRIPTION The book demystifies misconceptions and misinformation about BI. It provides clarity to almost everything related to BI in a simplified and unbiased way. It covers topics right from the definition of BI, terms used in the BI definition, coinage of BI, details of the different

support the main uses, side importance of BI, various types of BI based on various parameters, main phases in the BI journey and the challenges faced in each of the phases in the BI journey. It clarifies and real-time BI. The book covers the structure of a typical internal BI team, BI organizational models, and the main roles in BI. It also clarifies the doubts around roles in BI. It explores the different components that add to the cost of BI and explains how to calculate the total cost of the ownership of BI and ROI for BI. It covers several ideas, including unconventional ideas to achieve BI success and also learn about IBI. It explains the different types of BI architectures, commonly used technologies, tools, and concepts in BI and provides clarity about the boundary of BI w.r.t technologies, tools, and concepts. The book helps you lay a very strong foundation and provides the right perspective about BI. It enables you to start or restart your journey with BI. WHAT YOU WILL LEARN Builds a strong conceptual foundation in BI. Gives the right perspective and clarity on main uses of BI, processes that BI uses, challenges, and

architectures. Enables you to make the right decisions on the BI structure, organization model, and budget. Explains which type of BI solution is required for your business. BI ideas. WHO THIS BOOK IS FOR This book is a mustread for business managers, BI aspirants, CxOs, and all those who want to drive the business finish. This new edition features value with data-driven insights. TABLE OF **CONTENTS 1. What is** Business Intelligence? 2. Why do Businesses need BI? 3. Types of Business Intelligence 4. Challenges in Business Intelligence 5. Roles in Business Intelligence 6. Financials of Business Intelligence 7. Ideas for Success with BI 8. Introduction to IBI 9. BI Architectures 10. Demystify Tech, Tools, and Concepts in

Applied Security Architecture and Threat Models IBM Redbooks 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 Turn business needs into end-to-end technical architectures with this practical guide Assess and overcome various challenges while updating or modernizing legacy applications Future-proof your architecture with IoT, machine learning, and quantum computing

BI

Book Description Becoming a solutions architect requires a hands- big data processing, machine on approach, and the second edition of the Solutions Architect's Handbook brings exactly that. This handbook will teach you how to create robust, scalable, and fault-Applies successful tolerant solutions and nextgeneration architecture designs in a cloud environment. It will also help you build effective product strategies for your business and implement them from start to additional chapters on disruptive technologies, such as Internet of Things (IoT), quantum computing, data engineering, and machine learning. It also includes updated discussions on cloud-native architecture, blockchain data storage, and mainframe modernization with public cloud. The Solutions Architect's Handbook provides an understanding of solution architecture and how it fits into an agile enterprise environment. It will take you through the journey of solution architecture design by providing detailed knowledge of design pillars, advanced design patterns, anti-patterns, and the cloud-native aspects of modern software design. By the end of this handbook, you'll have learned the techniques needed to create efficient architecture designs that meet your business requirements. What you will learn Explore the various roles of a solutions architect module of the handbook is on in the enterprise landscape Implement key design principles and patterns to build highperformance, cost-effective solutions Choose the best strategies to secure your architectures and increase their availability Modernize this module explain the principles legacy applications with the help of

cloud integration Understand how learning, and IoT fit into modern architecture Integrate a DevOps mindset to promote collaboration, increase operational efficiency, and streamline production Who this book is for This book is designed for software developers, system engineers, DevOps engineers, architects, and team leaders who already work in the information technology industry and aspire to become solutions architect professionals. Existing solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills. To get started, you'll need a good understanding of the real-world software development process and general programming experience in any language.

Design scalable and cohesive business-to-consumer experiences with Salesforce Customer 360 CRC Press

This module explains the growing number of Application Servers and their variants (Mobile Application Servers, Commerce Servers, B2B Servers. Multimedia and Collaboration Servers). This is one module of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. The focus of this application servers that package several middleware and infrastructure services into a platform for development, deployment, and management of modern applications. Chapters of of application servers and

systematically discuss a) Mobile Application Servers based on WAP, and its components provide the I-Mode, J2ME, and others; b) Commerce Servers based on epayment systems, electronic Services, workflows, EDI, EAI; d) Multimedia and Collaboration Servers based on groupware, SMIL and RTP; and e) "Super Application Servers" that combine numerous services needed for Web, Intelligent Law Enforcement mobile applications, and EC/EB applications on a single platform (IBM's WebSphere is an example). Chapters of the module also include several real life examples and case studies to highlight practical applications. Additional information and instructor material this paper will benefit from the IBM application insights, and their available from author website (www.amjadumar.com). **Business Information Systems:** Concepts, Methodologies, Tools and Applications Packt Publishing Ltd 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 to implement the tools and tools for more effective law enforcement. This IBM RedpaperTM publication explains catalogs, XML, secure C2B trade; c) the technology and the architecture B2B Servers based on ebXML, Web on which the solution is built. Most aspiring to become architects importantly, this paper enables technical teams to install, configure, applications, as well as and deploy an instance of the i2 Integrated Law Enforcement solution using the product i2 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 RedguideTM publication "Integrated Law Enforcement: A Holistic Approach to Solving Crime", REDP-5116. **Enterprise Security Architecture Using IBM Tivoli Security Solutions** Packt Publishing Ltd Architect and design highly scalable, robust, clean and highly performant applications in .NET Core **About This Book Incorporate** architectural soft-skills such as DevOps and Agile methodologies to enhance program-level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical

techniques described in the book Who This Book Is For This book is for experienced .NET developers who are of enterprise-grade software architects who would like to leverage .NET to create effective blueprints of applications. What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools, usage to monitor performance, testability, and optimization tools in an enterprise Explore various authentication models such as social media-based authentication, 2FA and OpenID Connect, learn authorization techniques **Explore Azure with various** solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using .NET Core as the development framework and

use cases and code examples

learn about industry-wide best approach to show you the best strategy, provide an overview of practices and guidelines, then tools and techniques required this book is for you. The book to become a successful starts with a brief introduction software architect. to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types Aligning Enterprise, System, and of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about from information by collecting, the different approaches and models of the Security framework and explore various authentication models and authorization techniques. such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence, Style and approach Filled with examples and use cases, this quide takes a no-nonsense

Pro Freeware and Open Source Solutions for Business Addison-Wesley Professional The Enterprise CloudBest Practices integrating the Information for Transforming Legacy IT"O'Reilly Media, Inc." Software Architectures IBM Redbooks The need to archive information is on the rise, driven by content and data growth, regulatory compliance, legal discovery, and data protection requirements. The IBM® Smart Archive strategy is a comprehensive, unified, and integrated archive strategy that combines IBM software, systems, and service

that information. IBM **Enterprise Content** Management (ECM) products and offerings combined with the **IBM Information Archive** device provides the type of endto-end Smart Archive solution that is a critical component of the IBM Smart Archive strategy. This IBM RedpaperTM publication focuses on the benefit and technical details of the integration of ECM products and offering with the Information Archive device. We explain the need and concept behind the IBM Smart Archive

capabilities that are designed to

help organizations extract value

organizing, analyzing, and using

and to gain new intelligence

the Information Archive device and ECM products and offerings, and discuss how integrating them can benefit an organization. The technical details that we provide include Archive device with the following ECM products and offerings: -- IBM FileNet® P8 --IBM Content Manager -- IBM Content Manager OnDemand The Information Archive for Email, Files, and eDiscovery solution comes with the preintegrated and preconfigured Information Archive device and the preinstalled ECM software. The paper introduces technical sales people and IT specialists to the IBM Smart Archive strategy and the integration of Information Archive and ECM products and offerings. At the same time, it provides IT specialists specific guidance about performing the integrations.