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A Practical Guide to TPM 2.0: Using the Trusted Platform Module in the New Age of Security is a straight-forward primer for developers. It shows security and TPM concepts, demonstrating their use in real applications that the reader can try out. Simply put, this book is designed to empower and excite the programming community to go out and do cool things with the TPM. The approach is to ramp the reader up quickly and keep their interest. A Practical Guide to TPM 2.0: Using the Trusted Platform Module in the New Age of

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Security explains security concepts, describes the TPM 2.0 architecture, and provides code and pseudo-code examples in parallel, from very simple concepts and code to highly complex concepts and pseudo-code. The book includes instructions for the available execution environments and real code examples to get readers up and talking to the TPM quickly. The authors then help the users expand on that with pseudo-code descriptions of useful applications using the TPM.

Do you need to learn how to use Microsoft Teams? Are you questioning how to drive user adoption, govern content, and manage access for your Teams deployment? Either way, *Mastering Microsoft Teams* is your one-stop-shop to learning

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everything you need to know to find success with Microsoft Teams. Microsoft's new chat-based collaboration software has many rich features that enable teams to be more efficient, and save valuable time and resources. However, as with all software, there is a learning curve and pitfalls that should be avoided. Begin by learning the core components and use cases for Teams. From there the authors guide you through ideas to create governance and adoption plans that make sense for your organization or customer. Wrap up with an understanding of features and services in progress, and a road map to the future of the product. What You'll Learn Implement, use, and manage Microsoft Teams Understand how Teams drives productivity and engagement by combining the functionality of Microsoft

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Groups, SharePoint, OneDrive, Outlook, and other services in one location Govern, explain, and use Teams in your organization Know the pitfalls to avoid that may create challenges in your usage of Teams Become familiar with the functionality and components of Teams via walkthroughs, including opportunities for automating business processes in Teams Who This Book Is For Anyone who wants to learn Microsoft Teams. To get the most out of the book, a basic understanding of Office 365 and a subscription, including a Microsoft Teams license, is useful.

This book constitutes the refereed proceedings of the 17th International Symposium on Formal Methods, FM 2011, held in Limerick, Ireland, in June 2011. The 29 revised full papers

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presented together with 3 invited talks were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on cyber-physical systems, runtime analysis, case studies/tools, experience, program compilation and transformation, security, progress algebra, education, concurrency, dynamic structures, and model checking.

After Ole-Johan's retirement at the beginning of the new millennium, some of us had thought and talked about making a "Festschrift" in his honor. When Donald Knuth took the initiative by sending us the first contribution, the process began to roll! In early 2002 an editing group was formed, including Kristen Nygaard, who had known Ole-Johan since their

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student days, and with whom he had developed the Simula language. Then we invited a number of prominent researchers familiar with Ole-Johan to submit contributions for a book honoring Ole-Johan on the occasion of his 70th birthday. Invitees included several members of the IFIP 2.3 working group, a forum that Ole-Johan treasured and enjoyed participating in throughout his career. In spite of the short deadline, the response to the invitations was overwhelmingly positive. The original idea was to complete the book rather quickly to make it a gift he could read and enjoy, because by then he had had cancer for three years, and his health was gradually deteriorating. Kristen had been regularly visiting Ole-Johan, who was in the hospital at that

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time, and they were working on their Turing award speech. Ole-Johan was gratified to hear about the contributions to this book, but modestly expressed the feeling that there was no special need to undertake a book project on his behalf. Peacefully accepting his destiny, Ole-Johan died on June 29, 2002.

Pro Microsoft Teams Development

A Practical Guide to Container Orchestration

Theory and Practical Applications

A Practical Guide to TPM 2.0

Practical API Architecture and Development with Azure and
AWS

Designing Internet of Things with Microsoft Azure

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ASP.NET MVC 4 Recipes

Real-Time Web Application Development

Contains everything that a project team needs to know about the development and deployment of Web services with the IBM WebSphere product family. Includes examples for all development artifacts in a format that can be reused in the reader's project. The text combines the authors' own practical experiences with consolidated information on the latest product capabilities in a unique approach that allows the book to be easily accessible to a broad spectrum of readers. Finding a balance between a euphoric/optimistic and down-to earth/realistic view on the subject, this book should sit on every Web service developer's bookshelf.

A man may imagine he understands something, but still not

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understand anything in the way that he ought to. (Paul of Tarsus, 1 Corinthians 8:2) Calling this a 'practical theory' may require some explanation. Theory and practice are often thought of as two different worlds, governed by different ideals, principles, and laws. David Lorge Parnas, for instance, who has contributed much to our theoretical understanding of software engineering and also to sound use of theory in the practice of it, likes to point out that 'theoretically' is synonymous to 'not really'. In applied mathematics the goal is to discover useful connections between these two worlds. My thesis is that in software engineering this two-world view is inadequate, and a more intimate interplay is required between theory and practice. That is, both theoretical and practical components should be integrated into a practical

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theory. It should be clear from the above that the intended readership of this book is not theoreticians. They would probably have difficulties in appreciating a book on theory where the presentation does not proceed in a logical sequence from basic definitions to theorems and mathematical proofs, followed by application examples. In fact, all this would not constitute what I understand by a practical theory in this context.

Here is the expert-level, insider guidance you need on using Azure SQL Database as your back-end data store. This book highlights best practices in everything ranging from full-stack projects to mobile applications to critical, back-end APIs. The book provides instruction on accessing your data from any language and platform. And you learn how to push

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processing-intensive work into the database engine to be near the data and avoid undue networking traffic. Azure SQL is explained from a developer's point of view, helping you master its feature set and create applications that perform well and delight users. Core to the book is showing you how Azure SQL Database provides relational and post-relational support so that any workload can be managed with easy accessibility from any platform and any language. You will learn about features ranging from lock-free tables to columnstore indexes, and about support for data formats ranging from JSON and key-values to the nodes and edges in the graph database paradigm. Reading this book prepares you to deal with almost all data management challenges, allowing you to create lean and specialized solutions having

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the elasticity and scalability that are needed in the modern world. What You Will Learn Master Azure SQL Database in your development projects from design to the CI/CD pipeline Access your data from any programming language and platform Combine key-value, JSON, and relational data in the same database Push data-intensive compute work into the database for improved efficiency Delight your customers by detecting and improving poorly performing queries Enhance performance through features such as columnstore indexes and lock-free tables Build confidence in your mastery of Azure SQL Database's feature set Who This Book Is For Developers of applications and APIs that benefit from cloud database support, developers who wish to master their tools (including Azure SQL Database, and those who want their

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applications to be known for speedy performance and the elegance of their code

Build a strong and efficient IoT solution at industrial and enterprise level by mastering industrial IoT using Microsoft Azure. This book focuses on the development of the industrial Internet of Things (IIoT) paradigm, discussing various architectures, as well as providing nine case studies employing IoT in common industrial domains including medical, supply chain, finance, and smart homes. The book starts by giving you an overview of the basic concepts of IoT, after which you will go through the various offerings of the Microsoft Azure IoT platform and its services. Next, you will get hands-on experience of IoT applications in various industries to give you a better picture of industrial solutions

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and how you should take your industry forward. As you progress through the chapters, you will learn real-time applications in IoT in agriculture, supply chain, financial services, retail, and transportation. Towards the end, you will gain knowledge to identify and analyze IoT security and privacy risks along with a detailed sample project. The book fills an important gap in the learning of IoT and its practical use case in your industry. Therefore, this is a practical guide that helps you discover the technologies and use cases for IIoT. By the end of this book, you will be able to build industrial IoT solution in Microsoft Azure with sensors, stream analytics, and serverless technologies. What You Will Learn Provision, configure, and connect devices with Microsoft Azure IoT hub Stream analytics using structural data and non-

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structural data such as images Use stream analytics,
serverless technology, and IoT SaaS offerings Work with
common sensors and IoT devices Who This Book Is For IoT
architects, developers, and stakeholders working with the
industrial Internet of Things.

Beginning Laravel

With Xamarin.Forms and ASP.NET

PHP and MySQL Manual

Practical Azure Functions

Fundamentals to Design, Build, and Manage Cloud
Applications

Migrating and Building Scalable and Secure Cloud Solutions

Advances in Network Security and Applications

17th International Symposium on Formal Methods, Limerick,

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Ireland, June 20-24, 2011, Proceedings

The Model Driven Architecture defines an approach where the specification of the functionality of a system can be separated from its implementation on a particular technology platform. The idea being that the architecture will be able to easily be adapted for different situations, whether they be legacy systems, different languages or yet to be invented platforms. MDA is therefore, a significant evolution of the object-oriented approach to system development. Advanced System Design with Java, UML and MDA describes the factors involved in designing and constructing large systems, illustrating the design process through a series of examples, including a Scrabble player, a jukebox using web streaming, a security system, and

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others. The book first considers the challenges of software design, before introducing the Unified Modelling Language and Object Constraint Language. The book then moves on to discuss systems design as a whole, covering internet systems design, web services, Flash, XML, XSLT, SOAP, Servlets, Javascript and JSP. In the final section of the book, the concepts and terminology of the Model Driven Architecture are discussed. To get the most from this book, readers will need introductory knowledge of software engineering, programming in Java and basic knowledge of HTML. * Examines issues raised by the Model-Driven Architecture approach to development * Uses easy to grasp case studies to illustrate complex concepts * Focused on the internet applications and technologies that are

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essential for students in the online age
Business practices are rapidly changing due to technological advances in the workplace. Organizations are challenged to implement new programs for more efficient business while maintaining their standards of excellence and achievement. Human Performance Technology: Concepts, Methodologies, Tools, and Applications is a vital reference source for the latest research findings on real-world applications of digital tools for human performance enhancement across a variety of settings. This publication also examines the utilization of problem-based instructional techniques for challenges and solutions encountered by industry professionals. Highlighting a range of topics such as performance support systems, workplace curricula, and

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instructional technology, this multi-volume book is ideally designed for business executives and managers, business professionals, human resources managers, academicians, and researchers actively involved in the business industry. Get started and learn a step-by-step approach to application development using Microsoft Azure. Select the right services to solve the problem at hand in a cost-effective manner and explore the potential different services and how they can help in building enterprise applications. Azure has an ample amount of resources and tutorials, but most of them focus on specific services and explain those services on their own and in a given context. Practical Azure Application Development focuses on building complete solutions on Azure using different

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services. This book gives you the holistic approach to Azure as a solutions development platform. This book: Covers Azure as a solution development platform for building applications Provides real-world examples to understand why and when an Azure service is required Discusses how Azure helps to achieve continuous improvement and expansion of an application Provides application development experience from purchasing Azure to integrating with core Azure services, including an introduction to DevOps with VSTS What You'll Learn Use Azure services to solve real-world software problems Define the usage of Azure services and select the right services to solve the problem at hand Make clear and less ambiguous decisions about using different Azure services

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Take a holistic approach to Azure as a solution platform
Understand the basics of security, data protection, and cost controls in Azure Who This Book Is For Developers, software engineers, and architects who have experience in .NET and web development, but have little or no knowledge in planning and developing an application on Azure

PHP is rapidly becoming the language of choice for dynamic Web development, in particular for e-commerce and on-line database systems. It is open source software and easy to install, and can be used with a variety of operating systems, including Microsoft Windows and UNIX. This comprehensive manual covers the basic core of the language, with lots of practical examples of some of the

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more recent and useful features available in version 5.0. MySQL database creation and development is also covered, as it is the developer database most commonly used alongside PHP. It will be an invaluable book for professionals wanting to use PHP to develop their own dynamic web pages. Key Topics: - Basic Language Constructs - Manipulating Arrays and Strings - Errors and Buffering - Graphic Manipulation - PDF Library Extension - MySQL Database Management - Classes and Objects Concepts Features and Benefits: Explains how to use PHP to its full extent - covering the latest features and functions of PHP version 5.0, including the use of object-oriented programming Describes how to link a database to a web site, using the MySQL database management system

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Shows how to connect PHP to other systems and provides many examples, so that you can create powerful and dynamic web pages and applications Contains lots of illustrated, practical, real-world examples - including an e-commerce application created in PHP using many of the features described within the book The scripts used in the examples are available for download from www.phpmysql-manual.com

Advanced Systems Design with Java, UML and MDA

A Practical Theory of Reactive Systems

A Survey of Secure and Smart Industrial Solutions

Guide to Reliable Distributed Systems

Global, Social, and Organizational Implications of

Emerging Information Resources Management: Concepts

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and Applications

EBOOK INFORMATION SYSTEMS DEVELOPMENT

Building Applications in the Microsoft Cloud

Concepts, Methodologies, Tools, and Applications

"This work is a comprehensive, four-volume reference addressing major issues, trends, and areas for advancement in information management research, containing chapters investigating human factors in IT management, as well as IT governance, outsourcing, and diffusion"--Provided by publisher. Explore the concept of bots and discover the motivation behind working with these new apps with messaging platforms. This book is an accessible

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resource teaching the basic concepts behind bot design and implementation. Each chapter builds on previous topics and, where appropriate, real working code is shown that implements the concepts. By just picking up a code editor, you can start creating smart, engaging, and useful bot experiences today. Practical Bot Development will teach you how to create your own bots on platforms like Facebook Messenger and Slack, incorporate extension APIs, and apply AI and ML algorithms in the cloud. By the end of this book, you'll be equipped with the information to reach thousands of new users with the bots you create! The book is a

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great resource for those looking to harness the benefits of building their own bots and leveraging the platform feasibility of them. What You'll Learn Understand the general architecture of a bot Distinguish between a great bot experience versus a bad bot experience. Explore the ideas behind natural language processing and apply them to bot development Implement real Messenger, Slack, and custom channel bots using Node.js and the Microsoft Bot Builder framework Deploy bots to Facebook Messenger and Slack Who This Book Is For Engineers, hobbyists, and the design oriented community looking for an introduction to

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the technologies and concepts involved in building bots. The experience level could be from beginner to expert, although some familiarity with Node.js and APIs will be assumed.

Leverage the Microsoft Teams developer platform to integrate and build your apps in Teams. Busy developers will want to integrate it with other applications, both existing and new ones. Use this practical, hands-on guide to get you started building amazing custom solutions on and for Microsoft Teams, the new collaboration workspace in Office 365 and the fastest growing app in Microsoft history. Get ready to learn how to interact with data inside of

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Teams and how to surface your data on top of Teams, so that it is easily searchable and better supports people in their day-to-day jobs. Teams development expert Rick Van Rousset starts at the beginning, helping you set up your environment, and takes you step by step through the process. You will begin with low code, simple integrations, and progress in your learning to increasingly more complex, multi-faceted applications that use every aspect of the extension capabilities of Teams. And a bonus for developers is that integrating your own apps into the Teams developer platform is an excellent opportunity for those apps to get more

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visibility and usage. What You Will Learn

Understand the different development extension points and frameworks that are available in the Teams developer platform Create custom tabs, bots, connectors, messaging extensions, and webhooks Set up your development environment and speed up the development process Enlist best practices and easy wins that will make an application stand out inside the Teams ecosystem Explore advanced scenarios where the integrations of Office 365 meet inside of Microsoft Teams Who This Book Is For Developers (front end, back end, C#, or Node.js) and architects. Readers should be familiar with C# or

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Node.js and tools such as Visual Studio or Visual Studio Code and have some experience with Microsoft Teams. Beyond that, no further knowledge is required because the book starts at the beginning, setting up a development environment. This book constitutes the proceedings of the 4th International Conference on Network Security and Applications held in Chennai, India, in July 2011. The 63 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers address all technical and practical aspects of security and its applications for wired and wireless networks and are organized in topical

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sections on network security and applications, ad hoc, sensor and ubiquitous computing, as well as peer-to-peer networks and trust management.

End User Guide to Practical Usage, Collaboration, and Governance

Practical Azure Application Development

Practical Microsoft Azure IaaS

Information Resources Management: Concepts, Methodologies, Tools and Applications

Pro WCF 4

A Hands-on Guide to Building Custom Solutions for the Teams Platform

Concepts and Applications

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A Guide to Web, Mobile, and IoT Applications

This invaluable textbook/reference provides a hands-on guide to the application of good software development practices to the construction of distributed simulation systems, with a particular focus on High Level Architecture (HLA). Emphasizing a learning-by-doing approach supported by examples, the text offers practical advice on real-world development issues for all engineers and programmers entering the field. Topics and features: explains how to rapidly develop an HLA federation, offering an implemented sample for each service area of the HLA federate interface specification; describes this implementation using the freely available software tools SimGe and RACoN; provides numerous step-by-step examples, code snippets, and case studies, as well as links to downloadable sample source code; uses the Microsoft .NET platform and the C# programming language in all

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examples and case studies; includes review questions throughout the book for further study; examines not only federate application development, but also object model construction; discusses the employment of HLA in multi-agent simulations. Providing an accessible introduction and all-in-one resource for HLA-based distributed simulation development, this book is an essential guide for students and practitioners training in distributed simulation and distributed interactive simulation.

Find out how to use Docker in your ASP.NET Core MVC applications, and how containers make it easier to develop, deploy and manage those applications in production environments. Packed with examples and practical demonstrations, this book will help you deploy even large-scale, cross-platform web applications from development into production. Best-selling author Adam Freeman takes you on a

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whirlwind tour of Docker, from creating a consistent development environment for your team to deploying a project and scaling it up in production. By the end of the book, you will have a solid understanding of what Docker does, how it does it and why it is useful when developing and deploying ASP.NET Core MVC applications.

What You Will Learn Gain a solid understanding of Docker: what it is, and why you should be using it for your ASP.NET Core MVC applications Use Docker to create a development platform for ASP.NET Core MVC so that applications behave consistently across development and production Use Docker to test, deploy and manage ASP.NET Core MVC containers Use Docker Swarms to scale up applications to cope with large workloads Who This Book Is For ASP.NET Core MVC developers who want to use Docker to containerize and manage their applications

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This book focuses on software architecture and the value of architecture in the development of long-lived, mission-critical, trustworthy software-systems. The author introduces and demonstrates the powerful strategy of “Managed Evolution,” along with the engineering best practice known as “Principle-based Architecting.” The book examines in detail architecture principles for e.g., Business Value, Changeability, Resilience, and Dependability. The author argues that the software development community has a strong responsibility to produce and operate useful, dependable, and trustworthy software. Software should at the same time provide business value and guarantee many quality-of-service properties, including security, safety, performance, and integrity. As Dr. Furrer states, “Producing dependable software is a balancing act between investing in the implementation of business functionality and investing

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in the quality-of-service properties of the software-systems.” The book presents extensive coverage of such concepts as: Principle-Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization/Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures, tables, examples and illustrative quotations. Future-Proof Software-Systems provides a set of good engineering practices, devised for integration into most software development processes dedicated to the creation of software-systems that incorporate Managed Evolution.

ASP.NET MVC 4 Recipes is a practical guide for developers creating modern web applications, cutting through the complexities of ASP.NET, jQuery, Knockout.js and HTML 5 to provide

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straightforward solutions to common web development problems using proven methods based on best practices. The problem-solution approach gets you in, out, and back to work quickly while deepening your understanding of the underlying platform and how to develop with it. Author John Ciliberti guides you through the framework and development tools, presenting typical challenges, along with code solutions and clear, concise explanations, to accelerate application development. Inside you will find recipes dealing with streamlined syntax, full control over HTML, a simple API for creating RESTful web services, writing support for test driven development, and more. Solve problems immediately by pasting in code from the recipes, or put multiple recipe solutions together to overcome challenging development obstacles. Dive head first into ASP.NET MVC web development with ASP.NET MVC 4 Recipes.

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Design and Implementation of APIs for the Cloud

Simple, yet Powerful Web Programming

From Theory to Action

Using the Trusted Platform Module in the New Age of Security

FM 2011: Formal Methods

With ASP.NET Core, SignalR, Docker, and Azure

A Developer's Guide to DevOps Architecture the Right Way

Future-Proof Software-Systems

Pro WCF 4.0: Practical Microsoft SOA
Implementation is a complete guide to
Windows Communication Foundation from
the service-oriented architecture (SOA)
perspective, showing you why WCF is

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important to service-oriented architecture and development. This book provides deep insight into the functionality of WCF, which shipped with .NET 4.0-like service discovery, routing service, simplified configuration, and other advanced features. Included in this title are informative examples that will aid the reader in understanding and implementing these important additions. This book also covers the unified

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programming model, reliable messaging, security, and the peer-to-peer programming model. You'll also learn how to move your current .NET remoting and web service applications to WCF, and how to integrate those applications with WCF 4. This book offers genuine insight into solving real enterprise problems using WCF and .NET 4.0. Use this book as your one-stop shop for architecting a world-class DevOps environment with Microsoft

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technologies. .NET DevOps for Azure is a synthesis of practices, tools, and process that, together, can equip a software organization to move fast and deliver the highest quality software. The book begins by discussing the most common challenges faced by developers in DevOps today and offers options and proven solutions on how to implement DevOps for your team. Daily, millions of developers use .NET to build and operate mission-critical software

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systems for organizations around the world. While the marketplace has scores of information about the technology, it is completely up to you to put together all the blocks in the right way for your environment. This book provides you with a model to build on. The relevant principles are covered first along with how to implement that part of the environment. And while variances in tools, language, or requirements will change the needed implementation,

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the DevOps model is the architecture for the working environment for your team. You can modify parts of the model to customize it to your enterprise, but the architecture will enable all of your teams and applications to accelerate in performance. What You Will Learn Get your .NET applications into a DevOps environment in AzureAnalyze and address the part of your DevOps process that causes delays or bottlenecksTrack code using Azure

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Repos and conduct acceptance testsApply
the rules for segmenting applications
into Git repositoriesUnderstand the
different types of builds and when to
use eachKnow how to think about code
validation in your DevOps
environmentProvision and configure
environments; deploy release candidates
across the environments in AzureMonitor
and support software that has been
deployed to a production environment
Who This Book Is For .NET Developers

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who are using or want to use DevOps in Azure but don't know where to begin. This book describes the key concepts, principles and implementation options for creating high-assurance cloud computing solutions. The guide starts with a broad technical overview and basic introduction to cloud computing, looking at the overall architecture of the cloud, client systems, the modern Internet and cloud computing data centers. It then delves into the core

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challenges of showing how reliability and fault-tolerance can be abstracted, how the resulting questions can be solved, and how the solutions can be leveraged to create a wide range of practical cloud applications. The author's style is practical, and the guide should be readily understandable without any special background.

Concrete examples are often drawn from real-world settings to illustrate key insights. Appendices show how the most

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important reliability models can be formalized, describe the API of the Isis2 platform, and offer more than 80 problems at varying levels of difficulty.

Practical Azure SQL Database for Modern Developers
Building Applications in the Microsoft Cloud
Apress

Practical Bot Development

Practical Azure SQL Database for Modern Developers

Essays in Memory of Ole-Johan Dahl

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Theoretical and Practical Issues
Embedded Systems and Wireless
Technology

A Problem-Solution Approach

19th European Symposium on Programming,
ESOP 2010, Held as Part of the Joint
European Conferences on Theory and
Practice of Software, ETAPS 2010,
Paphos, Cyprus, March 20-28, 2010.

Proceedings

Perspectives on Web Services

Annotation. This book constitutes the refereed proceedings of the

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19th European Symposium on Programming, ESOP 2010, held in Paphos, Cyprus, in March 2010, as part of ETAPS 2010, the European Joint Conferences on Theory and Practice of Software. The 30 revised full papers, presented together with two invited talks (one abstract and one full), were carefully reviewed and selected from 121 full paper submissions. The topics addressed include programming paradigms and styles, methods and tools to write and specify programs and languages, methods and tools for reasoning about programs, methods and tools for implementation, and concurrency and distribution.

Adopt Azure IaaS and migrate your on-premise infrastructure partially or fully to Azure. This book provides practical solutions by following Microsoft's design and best practice guidelines for building highly available, scalable, and secure solution stacks using

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Microsoft Azure IaaS. The author starts by giving an overview of Azure IaaS and its components: you'll see the new aspects of Azure Resource Manager, storage in IaaS, and Azure networking. As such, you'll cover design considerations for migration and implementation of infrastructure services, giving you practical skills to apply to your own projects. The next part of the book takes you through the different components of Azure IaaS that need to be included in a resilient architecture and how to set up a highly available infrastructure in Azure. The author focuses on the tools available for Azure IaaS automated provisioning and the different performance monitoring and fine-tuning options available for the platform. Finally, you'll gain practical skills in Azure security and implementing Azure architectures. After reading Practical Microsoft Azure IaaS, you will have learned how to map the familiar on-

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premise architecture components to their cloud infrastructure counterparts. This book provides a focused and practical approach to designing solutions to be hosted in Azure IaaS. What You Will Learn Map the key Azure components to familiar concepts in infrastructure, such as virtualization, storage provisioning, switching, and firewalls Implement Azure IaaS deployment architectures Design IaaS environments in line with the Microsoft recommended best practices for scalability, resiliency, availability, performance, and security Manage the operational aspects of hosted environments, leverage automation, and fine tune for optimal performance Who This Book Is For Infrastructure and solution architects with skills in on-premise infrastructure design who want to up-skill in Azure IaaS.

Learn about dependency injection, interfaces, service providers,

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SOLID design, and more with practical and real-world code examples. This book covers everything you need to get started in application development with Laravel 5.3. Beginning Laravel covers features such as method injection, contracts, and authentication. After reading this book, you can develop any application using Laravel 5. It details all you need to know, including the model-view-controller pattern, SQLite databases, routing, authorization, and building CRUD applications. What You Will Learn Work with the new Laravel framework and its new features Develop web applications with Laravel Absorb the concepts of authentication and database migration Manage databases with Eloquent ORM Use middleware, contracts, and facades Who This Book Is For readers who are new to Laravel laravel development.

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development.br/divdivbr/divdivbr/div

Start developing Azure Functions and building simple solutions for serverless computing without worrying about infrastructure. With the increased need for deploying serverless computing, Azure Functions integrates with other Azure resources. This book is a quick reference and consists of a practical and problem-driven approach with the latest technology. Guided by step-by-step explanations and sample projects, you'll set up, build, and deploy Azure Functions to get the most out of this compute-on-demand service. After a foundational introduction to Azure Functions you'll prepare a development environment to serve and process an IoT Telemetry system, create Microservices, and monitor Azure Functions services to get application insights. What You'll Learn
Review the Interaction between Azure Functions and Azure

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data services Apply Azure Functions in web applications and build interaction systems for mobile applications Develop a serverless micro-service Serve and process IoT Telemetry systems Monitor Azure Functions services and get application insights Who This Book Is For Developers, students, professionals and anyone interested in Azure Function technology and the Azure platform.

Cloud Computing Patterns

Computer Book Review

Guide to Distributed Simulation with HLA

4th International Conference, CNSA 2011, Chennai, India, July 15-17, 2011, Proceedings

Designing and Building Bots with Node.js and Microsoft Bot Framework

A Step-by-Step Approach to Build Feature-Rich Cloud-Ready

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Solutions

Understanding Game Application Development

Incremental Modeling of Dynamic Behaviors

Design, develop, and deploy a real-world web application by leveraging modern open source technologies. This book shows you how to use ASP.NET Core to build cross-platform web applications along with SignalR to enrich the application by enabling real-time communication between server and clients. You will use Docker to containerize your application, integrate with GitHub to package the application, and provide continuous deployment to Azure's IaaS platform. Along the way, Real-Time Web Application Development covers topics including designing a Materialize CSS theme, using a test-driven development approach with

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xUnit.net, and securing your application with the OAuth 2.0 protocol. To further your understanding of the technology, you will learn logging and exception handling; navigation using view components; and how to work with forms and validations. The rich code samples from this book can be used to retrofit or upgrade existing ASP.NET Core applications. What You Will Learn Design and develop a real-world web application Implement security and data storage with OAuth2 and Azure Table Storage Orchestrate real-time notifications through SignalR Use GitHub and Travis CI for continuous integration of code Master Docker containerization and continuous deployment with Docker Cloud to Azure Linux virtual machines Who This Book Is For Developers and software engineers interested in learning an

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end-to-end approach to application development using Microsoft technologies.

EBOOK INFORMATION SYSTEMS DEVELOPMENT

Learn the business and technical importance of API design and architecture using the available cloud services from Azure and AWS. This book starts off with an introduction to APIs and the concept of API Economy from a business and organizational perspective. You'll decide on a sustainable API strategy and API architecture based on different case scenarios. You'll then look at actual examples on API development guidelines, providing a practical view and approach towards the API development and aligning teams in API development. This book walks you through the API gateway services available in Azure and AWS and reviews

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different approaches to API Security. This will prepare you for understanding the trade-off between security and the frictionless API experience. What You'll Learn Implement API Gateways to streamline API Development Examine Security Mapping with API gateways from Azure and AWS Apply API implementation using Serverless architecture Review evolving APIs for monitoring and changing business requirements Use code samples in API security implementations Who This Book Is For Developers and architects with .NET and web development experience who want to learn about API design.

The current work provides CIOs, software architects, project managers, developers, and cloud strategy initiatives with a set of architectural patterns that offer nuggets of advice on

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how to achieve common cloud computing-related goals. The cloud computing patterns capture knowledge and experience in an abstract format that is independent of concrete vendor products. Readers are provided with a toolbox to structure cloud computing strategies and design cloud application architectures. By using this book cloud-native applications can be implemented and best suited cloud vendors and tooling for individual usage scenarios can be selected. The cloud computing patterns offer a unique blend of academic knowledge and practical experience due to the mix of authors. Academic knowledge is brought in by Christoph Fehling and Professor Dr. Frank Leymann who work on cloud research at the University of Stuttgart. Practical experience in building cloud applications, selecting

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cloud vendors, and designing enterprise architecture as a cloud customer is brought in by Dr. Ralph Retter who works as an IT architect at T-Systems, Walter Schupeck, who works as a Technology Manager in the field of Enterprise Architecture at Daimler AG, and Peter Arbitter, the former head of T Systems' cloud architecture and IT portfolio team and now working for Microsoft. Voices on Cloud Computing Patterns Cloud computing is especially beneficial for large companies such as Daimler AG. Prerequisite is a thorough analysis of its impact on the existing applications and the IT architectures. During our collaborative research with the University of Stuttgart, we identified a vendor-neutral and structured approach to describe properties of cloud offerings and requirements on cloud environments. The

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resulting Cloud Computing Patterns have profoundly impacted our corporate IT strategy regarding the adoption of cloud computing. They help our architects, project managers and developers in the refinement of architectural guidelines and communicate requirements to our integration partners and software suppliers. Dr. Michael Gorriz - CIO Daimler AG Ever since 2005 T-Systems has provided a flexible and reliable cloud platform with its "Dynamic Services". Today these cloud services cover a huge variety of corporate applications, especially enterprise resource planning, business intelligence, video, voice communication, collaboration, messaging and mobility services. The book was written by senior cloud pioneers sharing their technology foresight combining essential

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information and practical experiences. This valuable compilation helps both practitioners and clients to really understand which new types of services are readily available, how they really work and importantly how to benefit from the cloud. Dr. Marcus Hacke – Senior Vice President, T-Systems International GmbH This book provides a conceptual framework and very timely guidance for people and organizations building applications for the cloud. Patterns are a proven approach to building robust and sustainable applications and systems. The authors adapt and extend it to cloud computing, drawing on their own experience and deep contributions to the field. Each pattern includes an extensive discussion of the state of the art, with implementation considerations and practical

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examples that the reader can apply to their own projects. By capturing our collective knowledge about building good cloud applications and by providing a format to integrate new insights, this book provides an important tool not just for individual practitioners and teams, but for the cloud computing community at large. Kristof Kloeckner - General Manager, Rational Software, IBM Software Group

A beginner's guide to application development with Laravel 5.3

.NET DevOps for Azure

Building High-Assurance Applications and Cloud-Hosted Services

Applying SOAP, WSDL and UDDI to Real-World Projects
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Web Services Security Development and Architecture:
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The Evolution of Mobile Teaching and Learning

A Sustainable Evolution Strategy

The potential of embedded systems ranges from the simplicity of sharing digital media to the coordination of a variety of complex joint actions carried out between collections of networked devices. The book explores the emerging use of embedded systems and wireless technologies from theoretical and practical applications and their applications in agriculture, environment, public health, domotics, and public transportation, among

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others.

Go from zero to sixty deploying and running a Kubernetes cluster on Microsoft Azure! This hands-on practical guide to Microsoft's Azure Kubernetes Service (AKS), a managed container orchestration platform, arms you with the tools and knowledge you need to easily deploy and operate on this complex platform. Take a journey inside Docker containers, container registries, Kubernetes architecture, Kubernetes components, and core Kubectl commands. Drawing on hard-earned experience in the field, the authors provide just enough theory to help you grasp important concepts,

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teaching the practical straightforward knowledge you need to start running your own AKS cluster. You will dive into topics related to the deployment and operation of AKS, including Rancher for management, security, networking, storage, monitoring, backup, scaling, identity, package management with HELM, and AKS in CI/CD. What You Will Learn Develop core knowledge of Docker containers, registries, and Kubernetes Gain AKS skills for Microsoft's fastest growing services in the cloud Understand the pros and cons of deploying and operating AKS Deploy and manage applications on the AKS platform Use

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AKS within a DevOps CI/CD process Who This Book Is For IT professionals who work with DevOps, the cloud, Docker, networking, storage, Linux, or Windows. Experience with cloud, DevOps, Docker, or application development is helpful.

Learn to build a simple data-driven mobile game application using the power of Xamarin.Forms, ASP.NET, the Web API, and SignalR with this short book. In it you will build a cross-platform mobile application that targets both iOS and Android, connect your app with your database using Entity Framework, and implement real-time syncing

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functionality using SignalR. Understanding Game Application Development starts by giving you an overview of the development tools, an installation guide, and a list of prerequisites. You will learn how to manage application flow, create your workspace, and set up your database. Next, you will see how to access data for handling CRUD operations and define the necessary API endpoints. Further, you will build a mobile application with Xamarin.Forms, both in iOS and in Android. You will also understand the deployment and testing process as well as how to build a real-time leader board using

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ASP.NET MVC and SignalR. Finally, you will understand how to publish your source code on GitHub from Visual Studio 2017. What You Will Learn Understand the basic concept and fundamentals of the technologies used for building the applications Set up your development environment Create a SQL database from scratch Implement a data access layer Define REST service endpoints using the Web API Deploy, test, and debug iOS and Android applications Push your source code to GitHub Who This Book Is For .NET developers who want to jump on mobile application development with Xamarin and learn with

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practical examples.

"This book's main objective is to present some of the key approaches, research lines, and challenges that exist in the field of security in SOA systems"--Provided by publisher.

Introducing Azure Kubernetes Service

From Object-Orientation to Formal Methods

Human Performance Technology: Concepts,

Methodologies, Tools, and Applications

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Programming Languages and Systems

Practical Microsoft SOA Implementation

In today's global society, it has become increasingly important to address the current challenges, obstacles, and solutions encountered by researchers in the field of information resources management. *Global, Social, and Organizational Implications of Emerging Information Resources Management: Concepts and Applications* highlights recent trends and advancements as they impact all facets of information resources management in an ever-changing society. This collection provides focused discussions of the role

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outsourcing has played in modern business, the development of Web information systems, and social issues such as explorations of age-based salary differences and workplace stress.

Essential Docker for ASP.NET Core MVC