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# Cloud Computing For Dummies

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## MIDDLETON LOPEZ

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Cloud Computing For Dummies John Wiley & Sons

This book is designed for use as a primary textbook for a course in cloud computing or as a resource for professionals in industry seeking to explore cloud services. The book highlights the recent developments in distributed computing and details the architecture, virtualization concepts, and security concerns of cloud computing. It also provides a detailed understanding of the benefits of cloud computing that can encourage enterprises to switch to the cloud. Features: - Provides a basic understanding of the computing paradigm of cloud computing - Gives a brief introduction to cloud computing, its architecture, and the Hadoop distributed file system - Deals with cloud management concepts like scalable, fault tolerance, resiliency, provisioning, asset management, cloud governance, high availability, disaster recovery, and multi-tenancy - Includes case studies on MS Azure, Google, Amazon Web Services, Aneka, etc.

Data Warehousing For Dummies For Dummies

Virtualization has become a “megatrend”—and for good reason. Implementing virtualization allows for more efficient utilization of network server capacity, simpler storage administration, reduced energy costs, and better use of corporate capital. In other words: virtualization helps you save money, energy, and space. Not bad, huh? If you’re thinking about “going virtual” but have the feeling everyone else in the world understands exactly what that means while you’re still virtually in the dark, take heart. Virtualization for Dummies gives you a thorough introduction to this hot topic and helps you evaluate if making the switch to a virtual environment is right for you. This fun and friendly guide starts with a detailed overview of exactly what virtualization is and exactly how it works, and then takes you on a tour of the benefits of a virtualized environment, such as added space in overcrowded data centers, lower operations costs through more efficient infrastructure administration, and reduced energy costs through server consolidation. Next, you’ll get step-by-step guidance on how to: Perform a server virtualization cost versus benefit analysis Weigh server virtualization options Choose hardware for your server virtualization project Create a virtualized software environment Migrate to—and manage—your new virtualized environment Whether you’re an IT manager looking to sell the idea to your boss, or just want to learn more about how to create, migrate to, and successfully manage a virtualized environment, Virtualization for Dummies is your go-to guide for virtually everything you need to know.

Big Data For Dummies Newnes

Create dynamic cloud-based websites with Amazon Web Services and this friendly guide! As the largest cloud computing platform in the world, Amazon Web Services (AWS) provides one of the most popular web services options available. This easy-to-understand guide is the perfect introduction to the Amazon Web Services platform and all it can do for you. You'll learn about the Amazon Web Services tool set; how different web services (including S3, Amazon EC2, and Amazon Flexible Payments) and Glacier work; and how you can implement AWS in your organization. Explains how to use Amazon Web Services to store objects, take payments, manage large quantities of data, send e-mails, deploy push notifications, and more from your website Details how AWS can reduce costs, improve efficiency, increase productivity, and cut down on expensive hardware investments - and administrative headaches - in your organization Includes practical examples and helpful step-by-step lists to help you experiment with different AWS features and create a robust website that meets your needs Amazon Web Services For Dummies is exactly what you need to get your head in the cloud with Amazon Web Services!

**Cloud Computing** John Wiley & Sons

Cloud computing can be difficult to understand at first, but the cost-saving possibilities are great and many companies are getting on board. If you've been put in charge of implementing cloud computing, this straightforward, plain-English guide clears up the confusion and helps you get your plan in place. You'll learn how cloud computing enables you to run a more green IT infrastructure, and access technology-enabled services from the Internet ("in the cloud") without having to understand, manage or invest in the technology infrastructure that supports them. You'll also find out what you need to consider when implementing a plan, how to handle security issues, and more. \* Cloud computing is a way for businesses to take advantage of storage and virtual services through the Internet, saving money on infrastructure and support \* This book provides a clear definition of cloud computing from the utility computing standpoint and also addresses security concerns \* Offers practical guidance on delivering and managing cloud computing services effectively and efficiently \* Presents a proactive and pragmatic approach to implementing cloud computing in any organization \* Helps IT managers and staff understand the benefits and challenges of cloud computing, how to select a service and what's involved in getting it up and running \* Highly experienced author team consults and gives presentations on emerging technologies Cloud Computing For Dummies gets straight to the point, providing the practical information you need to know.

Cloud Computing For Dummies CRC Press

Why cloud computing represents a paradigm shift for business, and how business users can best take advantage of cloud services. Most of the information available on cloud computing is either highly technical, with details that are irrelevant to non-technologists, or pure marketing hype, in which the cloud is simply a selling point. This book, however, explains the cloud from the user's viewpoint—the business user's in particular. Nayan Ruparelia explains what the cloud is, when to use it (and when not to), how to select a cloud service, how to integrate it with other technologies, and what the best practices are for using cloud computing. Cutting through the hype, Ruparelia cites the simple and basic definition of cloud computing from the National Institute of Science and Technology: a model enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources. Thus with cloud computing, businesses can harness information technology resources usually available only to large enterprises. And this, Ruparelia demonstrates, represents a paradigm shift for business. It will ease funding for startups, alter business plans, and allow big businesses greater agility. Ruparelia discusses the key issues for any organization considering cloud computing: service level agreements, business service delivery and consumption, finance, legal jurisdiction, security, and social responsibility. He introduces novel concepts made possible by cloud computing: cloud cells, or specialist clouds for specific uses; the personal cloud; the cloud of things; and cloud service exchanges. He examines use case patterns in terms of infrastructure and platform, software information, and business process; and he explains how to transition to a cloud service. Current and future users will find this book an indispensable guide to the cloud.

*The Cloud Computing Book* John Wiley & Sons

Get your head—and your business—into the Cloud Cloud computing is no longer just a clever new toy in the world of IT infrastructure. Despite the nebulous name, it's become a real and important part of our information architecture—and tech professionals who ignore it or try to skim their way through risk falling behind rapidly. The new edition of *Cloud Computing For Dummies* gets you up to speed fast, clarifying your Cloud options, showing you where can save you time and money, giving you ways to frame your decisions, and helping you avoid weeks of research. In a friendly, easy-to-follow style, *Cloud Computing For Dummies, 2nd Edition* demystifies the Cloud's virtual landscape, breaking up a complex and multi-layered topic into simple explanations that will make the various benefits clear and ultimately guide you toward making the most appropriate choices for your organization. Know the business case for the Cloud Understand hybrid and multi-cloud options Develop your Cloud strategy Get tips on best practices The Cloud is everywhere, and it can deliver amazing benefits to our lives and businesses. Get a much clearer vision of exactly how with *Cloud Computing For Dummies*—and you'll begin to see that the sky really is the limit!

*Cloud Computing Basics* John Wiley & Sons

A solid introduction to the practices, plans, and skills required for developing a smart system architecture Information architecture combines IT skills with business skills in order to align the IT structure of an organization with the mission, goals, and objectives of its business. This friendly introduction to IT architecture walks you through the myriad issues and complex decisions that many organizations face when setting up IT systems to work in sync with business procedures. Veteran IT professional and author Kirk Hausman explains the business value behind IT architecture

and provides you with an action plan for implementing IT architecture procedures in an organization. You'll explore the many challenges that organizations face as they attempt to use technology to enhance their business's productivity so that you can gain a solid understanding of the elements that are required to plan and create an architecture that meets specific business goals. Defines IT architecture as a blend of IT skills and business skills that focuses on business optimization, business architecture, performance management, and organizational structure Uncovers and examines every topic within IT architecture including network, system, data, services, application, and more Addresses the challenges that organizations face when attempting to use information technology to enable profitability and business continuity While companies look to technology more than ever to enhance productivity, you should look to *IT Architecture For Dummies* for guidance in this field.

*Cloud Computing* "O'Reilly Media, Inc."

Data warehousing is one of the hottest business topics, and there's more to understanding data warehousing technologies than you might think. Find out the basics of data warehousing and how it facilitates data mining and business intelligence with *Data Warehousing For Dummies, 2nd Edition*. Data is probably your company's most important asset, so your data warehouse should serve your needs. The fully updated Second Edition of *Data Warehousing For Dummies* helps you understand, develop, implement, and use data warehouses, and offers a sneak peek into their future. You'll learn to: Analyze top-down and bottom-up data warehouse designs Understand the structure and technologies of data warehouses, operational data stores, and data marts Choose your project team and apply best development practices to your data warehousing projects Implement a data warehouse, step by step, and involve end-users in the process Review and upgrade existing data storage to make it serve your needs Comprehend OLAP, column-wise databases, hardware assisted databases, and middleware Use data mining intelligently and find what you need Make informed choices about consultants and data warehousing products *Data Warehousing For Dummies, 2nd Edition* also shows you how to involve users in the testing process and gain valuable feedback, what it takes to successfully manage a data warehouse project, and how to tell if your project is on track. You'll find it's the most useful source of data on the topic!

*IT Architecture For Dummies* John Wiley & Sons

The easy way to understand and implement cloud computing technology written by a team of experts Cloud computing can be difficult to understand at first, but the cost-saving possibilities are great and many companies are getting on board. If you've been put in charge of implementing cloud computing, this straightforward, plain-English guide clears up the confusion and helps you get your plan in place. You'll learn how cloud computing enables you to run a more green IT infrastructure, and access technology-enabled services from the Internet ("in the cloud") without having to understand, manage, or invest in the technology infrastructure that supports them. You'll also find out what you need to consider when implementing a plan, how to handle security issues, and more. Cloud computing is a way for businesses to take advantage of storage and virtual services through the Internet, saving money on infrastructure and support This book provides a clear definition of cloud computing from the utility computing standpoint and also addresses security concerns Offers practical guidance on delivering and managing cloud computing services effectively and efficiently Presents a proactive and pragmatic approach to implementing cloud computing in any organization

Helps IT managers and staff understand the benefits and challenges of cloud computing, how to select a service, and what's involved in getting it up and running. Highly experienced author team consults and gives presentations on emerging technologies. *Cloud Computing For Dummies* gets straight to the point, providing the practical information you need to know.

**AWS For Admins For Dummies** John Wiley & Sons

A plain-English guide to managing IT from the customer's perspective. Practical guidance on delivering and managing IT so that it meets the multiple needs and demands of a company and its customers and end-users—both inside and outside the organization—is hard to come by; this accessible book takes a common-sense approach that explains exactly what IT services are and how to fit them most effectively into a business. Topics include setting a framework, keeping costs down, improving efficiency, and maintaining standards and best practices. This concept of how IT should be wired specifically into the goals and need of the company and its customers is part of a broader picture that includes ITIL, BPM, SOA, and Six Sigma.

**Smart Cities For Dummies** John Wiley & Sons

Become empowered to build and maintain smarter cities. At its core, a smart city is a collection of technological responses to the growing demands, challenges, and complexities of improving the quality of life for billions of people now living in urban centers across the world. The movement to create smarter cities is still in its infancy, but ambitious and creative projects in all types of cities—big and small—around the globe are beginning to make a big difference. New ideas, powered by technology, are positively changing how we move humans and products from one place to another; create and distribute energy; manage waste; combat the climate crisis; build more energy efficient buildings; and improve basic city services through digitalization and the smart use of data. Inside this book you'll find out: What it really means to create smarter cities. How our urban environments are being transformed. Big ideas for improving the quality of life for communities. Guidance on how to create a smart city strategy. The essential role of data in building better cities. The major new technologies ready to make a difference in every community. *Smart Cities For Dummies* will give you the knowledge to understand this important topic in depth and be ready to be an agent of change in your community.

**Salesforce Marketing Cloud For Dummies** John Wiley & Sons

Salesforce Marketing Cloud: Take your digital marketing on a journey! Everything seems to be moving to the cloud these days—and digital marketing is no exception! *Salesforce Marketing Cloud For Dummies* guides you through the use of Salesforce's exciting suite of cloud-based digital marketing solutions, which have the power to help you plan, personalize, and optimize your customers' journey. Written by a leader of the Salesforce training and development team, *Salesforce Marketing Cloud* users will find essential information on using the suite of tools and tips and tricks that only an insider would be able to share. With easy-to-follow instructions, this guide helps you discover how to incorporate your data sets into the tools to create models, campaigns, and customer maps that enable you to create a positive experience for your customers. As Salesforce.com's multi-channel digital marketing platform, the Salesforce Marketing Cloud focuses on helping you manage one-on-one customer journeys. Leveraging a variety of features, this suite of tools offers email marketing, mobile marketing, social media marketing, content and messaging,

predictive intelligence, and more. Your ability to navigate these features and functions will determine your digital marketing campaign's success, so it's critical that you make the most of this tool! Navigate and manage the Salesforce Marketing Cloud. Define and understand your customers' journeys—and how you fit into them. Engage your customers across devices, ensuring consistent communication. Use predictive data to optimize engagement. *Salesforce Marketing Cloud For Dummies* helps you make the most of your investment in the digital marketing world!

**DevOps For Dummies** John Wiley & Sons

Cloud computing has become a significant technology trend. Experts believe cloud computing is currently reshaping information technology and the IT marketplace. The advantages of using cloud computing include cost savings, speed to market, access to greater computing resources, high availability, and scalability. *Handbook of Cloud Computing* includes contributions from world experts in the field of cloud computing from academia, research laboratories and private industry. This book presents the systems, tools, and services of the leading providers of cloud computing; including Google, Yahoo, Amazon, IBM, and Microsoft. The basic concepts of cloud computing and cloud computing applications are also introduced. Current and future technologies applied in cloud computing are also discussed. Case studies, examples, and exercises are provided throughout. *Handbook of Cloud Computing* is intended for advanced-level students and researchers in computer science and electrical engineering as a reference book. This handbook is also beneficial to computer and system infrastructure designers, developers, business managers, entrepreneurs and investors within the cloud computing related industry.

**Cloud Computing For Dummies, 2nd Edition** Springer Science & Business Media

A plain-English guide to the market-leading virtualization and cloud computing technology. With virtualization, a single server can host dozens or hundreds of virtual machines running a variety of operating systems, and even hook them together in a virtual network or cloud infrastructure. This practical guide shows you how to create a virtual system using the VMware vSphere environment. You'll find all the information you need to understand, design, and deploy one—without getting overwhelmed with technical detail. And once you're up and running, this book is the perfect reference for maintenance and troubleshooting issues. Introduces you to virtualization and VMware's virtualization/cloud computing technology, the most recent version is VMware vSphere. Shows you how to design a vSphere environment. Covers installation, deployment, management, maintenance, and troubleshooting. Provides what IT managers and system administrators need to roll out their first virtualized or cloud infrastructure, or to get up to speed on VMware's technology. Get up and running on the cloud with VMware vSphere For Dummies!

**Microsoft Azure For Dummies** John Wiley & Sons

As part of the Syngress Basics series, *The Basics of Cloud Computing* provides readers with an overview of the cloud and how to implement cloud computing in their organizations. Cloud computing continues to grow in popularity, and while many people hear the term and use it in conversation, many are confused by it or unaware of what it really means. This book helps readers understand what the cloud is and how to work with it, even if it isn't a part of their day-to-day responsibility. Authors Derrick Rountree and Ileana Castrillo explains the concepts of cloud computing in practical terms, helping readers understand how to leverage cloud services and

provide value to their businesses through moving information to the cloud. The book will be presented as an introduction to the cloud, and reference will be made in the introduction to other Syngress cloud titles for readers who want to delve more deeply into the topic. This book gives readers a conceptual understanding and a framework for moving forward with cloud computing, as opposed to competing and related titles, which seek to be comprehensive guides to the cloud. Provides a sound understanding of the cloud and how it works Describes both cloud deployment models and cloud services models, so you can make the best decisions for deployment Presents tips for selecting the best cloud services providers

Handbook of Cloud Computing Cloud Computing For Dummies

Explores key challenges and solutions to assured cloud computing today and provides a provocative look at the face of cloud computing tomorrow This book offers readers a comprehensive suite of solutions for resolving many of the key challenges to achieving high levels of assurance in cloud computing. The distillation of critical research findings generated by the Assured Cloud Computing Center of Excellence (ACC-UCoE) of the University of Illinois, Urbana-Champaign, it provides unique insights into the current and future shape of robust, dependable, and secure cloud-based computing and data cyberinfrastructures. A survivable and distributed cloud-computing-based infrastructure can enable the configuration of any dynamic systems-of-systems that contain both trusted and partially trusted resources and services sourced from multiple organizations. To assure mission-critical computations and workflows that rely on such systems-of-systems it is necessary to ensure that a given configuration does not violate any security or reliability requirements. Furthermore, it is necessary to model the trustworthiness of a workflow or computation fulfillment to a high level of assurance. In presenting the substance of the work done by the ACC-UCoE, this book provides a vision for assured cloud computing illustrating how individual research contributions relate to each other and to the big picture of assured cloud computing. In addition, the book: Explores dominant themes in cloud-based systems, including design correctness, support for big data and analytics, monitoring and detection, network considerations, and performance Synthesizes heavily cited earlier work on topics such as DARE, trust mechanisms, and elastic graphs, as well as newer research findings on topics, including R-Storm, and RAMP transactions Addresses assured cloud computing concerns such as game theory, stream processing, storage, algorithms, workflow, scheduling, access control, formal analysis of safety, and streaming Bringing together the freshest thinking and applications in one of today's most important topics, Assured Cloud Computing is a must-read for researchers and professionals in the fields of computer science and engineering, especially those working within industrial, military, and governmental contexts. It is also a valuable reference for advanced students of computer science.

Cloud Computing For Dummies John Wiley & Sons

In a friendly, easy-to-follow style, this book gets you up to speed fast, clarifying your Cloud options, showing you where can save you time and money, giving you ways to frame your decisions, and helping you avoid weeks of research. --

Service Oriented Architecture For Dummies John Wiley & Sons

SOA is the most important initiative facing IT today and is difficult to grasp; this book demystifies the complex topic of SOA and makes it accessible to all those people who hear the term but aren't really sure what it means This team of well-respected authors explains that SOA is a collection of applications that enables resources to be available to other participants in a network using any service-based technology Examines how SOA enables faster and cheaper application development and how it offers reusable code that can be used across various applications Covers what SOA is, why it matters, how it can impact businesses, and how to take steps to implement SOA in a corporate environment

*Patterns for Scalable Infrastructure and Applications in a Dynamic Environment* John Wiley & Sons

Easily get your head in the Cloud with Amazon Web Services With Amazon Web Services (AWS), you can do everything from backing up your personal hard drive to creating a full-fledged IT department in the Cloud. And while major corporations like Adobe and Netflix have turned to AWS for their Cloud computing needs, it isn't just for private companies. Amazon Web Services For Dummies is the singular resource that shows real people with real businesses how to use on-demand IT resources to help their companies grow. If you're like most people just getting their feet wet with this service, your first question is likely to be, "How do I get started with AWS?" This book answers that question—and a multitude more—in language you can understand and shows you how to put this Cloud computing service to work for you right away. AWS is immense and, naturally, intimidating, but with the help of this book, you'll peel back its many layers in no time! Provides overviews that explain what tasks the services perform and how they relate to each other Offers specific paths to follow in order to obtain a particular installation result Gets you started without making a huge investment Reduces the risk of failure by ensuring you understand available options as part of the configuration and usage process Stop wasting time and resources on hardware and software that's quickly outdated. Get started with AWS today!

**Cloud Computing For Dummies** John Wiley & Sons

Start a successful career in machining Metalworking is an exciting field that's currently experiencing a shortage of qualified machinists—and there's no time like the present to capitalize on the recent surge in manufacturing and production opportunities. Covering everything from lathe operation to actual CNC programming, Machining For Dummies provides you with everything it takes to make a career for yourself as a skilled machinist. Written by an expert offering real-world advice based on experience in the industry, this hands-on guide begins with basic topics like tools, work holding, and ancillary equipment, then goes into drilling, milling, turning, and other necessary metalworking processes. You'll also learn about robotics and new developments in machining technology that are driving the future of manufacturing and the machining market. Be profitable in today's competitive manufacturing environment Set up and operate a variety of computer-controlled and mechanically controlled machines Produce precision metal parts, instruments, and tools Become a part of an industry that's experiencing steady growth Manufacturing is the backbone of America, and this no-nonsense guide will provide you with valuable information to help you get a foot in the door as a machinist.