

Cloud Computing For Dummies

An expert guide to selecting the right cloud service model for your business Cloud computing is all the rage, allowing for the delivery of computing and storage capacity to a diverse community of end-recipients. However, before you can decide on a cloud model, you need to determine what the ideal cloud service model is for your business. Helping you cut through all the haze, Architecting the Cloud is vendor neutral and guides you in making one of the most critical technology decisions that you will face: selecting the right cloud service model(s) based on a combination of both business and technology requirements. Guides corporations through key cloud design considerations Discusses the pros and cons of each cloud service model Highlights major design considerations in areas such as security, data privacy, logging, data storage, SLA monitoring, and more Clearly defines the services cloud providers offer for each service model and the cloud services IT must provide Arming you with the information you need to choose the right cloud service provider, Architecting the Cloud is a comprehensive guide covering everything you need to be aware of in selecting the right cloud service model for you.

Cloud computing is changing the way businesses and users interact with computers and mobile devices. Gone are the days of expensive data centers, racks of disk drives, and large IT support teams. In their place are software applications delivered to users on demand from the cloud, high-capacity, auto-replicated, secure cloud-based disk-storage and databases, virtualized-server and desktop environments, and cloud-based collaboration tools which support on-premise-, remote-, and hybrid-team success. Within the pages of Cloud Computing,

Read Free Cloud Computing For Dummies

readers will find a hands-on introduction to the cloud, which will have them using cloud-based data storage to store personal documents and to share photos and other digital media with other users and their own various devices, performing cloud-based automated backups, and using other cloud-based applications by the end of Chapter 1! Readers will learn specifics about software as a service (SaaS), platform as a service (PaaS), infrastructure as a service (IaaS), server and desktop virtualization, and much more. Each chapter of the book presents a cloud topic, examines the underlying business case, and then takes the reader on a test drive. The chapters are filled with real-world case studies. The book's content is ideal for users wanting to migrate to the cloud, IT professionals seeking knowledge on cloud fundamentals, developers who will build the cloud solutions of the future, and CIOs wanting insights on the most recent cloud solutions.

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

Read Free Cloud Computing For Dummies

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: Theory and Practice provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems Get a detailed hands-on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in-depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to

Read Free Cloud Computing For Dummies

succeed than previous efforts in large-scale distributed computing

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.

Read Free Cloud Computing For Dummies

The AI revolution is moving at a breakneck speed. Organizations are beginning to invest in innovative ways to monetize their data through the use of artificial intelligence. Businesses need to understand the reality of AI. To be successful, it is imperative that organizations understand that augmented intelligence is the secret to success. *Augmented Intelligence: The Business Power of Human–Machine Collaboration* is about the process of combining human and machine intelligence. This book provides business leaders and AI data experts with an understanding of the value of augmented intelligence and its ability to help win competitive markets. This book focuses on the requirement to clearly manage the foundational data used for augmented intelligence. It focuses on the risks of improper data use and delves into the ethics and governance of data in the era of augmented intelligence. In this book, we explore the difference between weak augmentation that is based on automating well understood processes and strong augmentation that is designed to rethink business processes through the inclusion of data, AI and machine learning. What experts are saying about Augmented Intelligence "The book you are about to read is of great importance because we increasingly rely on machine learning and AI. Therefore, it is critical that we understand the ability to create an environment in which businesses can have the tools to understand data from a holistic perspective. What is imperative is to be able to make better decisions based on an understanding of the behavior and thinking of our customers so that we can take the best next action. This book provides a clear understanding of the impact of augmented intelligence on both society and business."—Tsvi Gal, Managing Director, Enterprise Technology and Services, Morgan Stanley "Our mission has always been to help clients apply AI to better predict and shape future outcomes, empower higher value work, and automate how work gets done. I

Read Free Cloud Computing For Dummies

have always said, 'AI will not replace managers, but managers who use AI will replace managers who don't.' This book delves into the real value that AI promises, to augment existing human intelligence, and in the process, dispels some of the myths around AI and its intended purpose."—Rob Thomas, General Manager, Data and AI, IBM

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!

Choose the right combination of public, private, and datacenter resources to empower your

Read Free Cloud Computing For Dummies

business Hybrid clouds are transforming the way that organizations do business. This handy guide helps you find out what this new cloud deployment model is all about. You'll get down-to-earth information about cloud technology, questions to consider, and how to plan and deliver your move to a hybrid environment. Constructing the cloud — learn the basic concepts of the hybrid cloud from both a technical and business perspective Delivering cloud services — dive deeper into the actual foundational elements of the hybrid cloud Identifying business value — determine your hybrid cloud needs based on your business objectives Unified hybrid environments — find out what it means to create a computing environment that brings elements of the data center together with public and private cloud services Making it work — examine the steps you need to take to make this new architectural approach work — including security, governance, data, integration, monitoring, and more Get your ticket to the cloud — tips on how to talk to cloud providers and plan for the service you choose Open the book and find: Different cloud deployment models and what differentiates a hybrid cloud from other cloud models The impact of the hybrid cloud on cloud delivery models Why service orientation matters in a hybrid cloud Ways to develop and deploy applications in a hybrid world Guidance in finding the right hybrid cloud service providers Security and governance in a hybrid model The role of workload optimization in hybrid environments Learn to: Recognize the benefits and challenges of a hybrid cloud Efficiently deliver and manage cloud services Understand the impact of emerging cloud standards Protect customer data with sound security practices Everything you need to get productive in the Cloud with Office 365 With 70 million users worldwide, Microsoft Office 365 combines the familiar Office desktop suite with cloud-based versions of Microsoft's next-generation communications and collaboration services. It offers

Read Free Cloud Computing For Dummies

many benefits including security, reliability, compatibility with other products, over-the-air updates in the cloud that don't require anything from the user, single sign on for access to everything right away, and so much more. Office 365 For Dummies offers a basic overview of cloud computing and goes on to cover Microsoft cloud solutions and the Office 365 product in a language you can understand. This includes an introduction to each component which leads into topics around using each feature in each application. Get up to speed on instant messaging Use audio, video, and web conferencing Get seamless access to the Office suite with Office Web apps Access information anywhere, anytime Office 365 is the key to office productivity — and now you can put it to use for you!

Unleash the power of cloud computing using Azure, AWS and Apache HadoopKey features Provides a sound understanding of the Cloud computing concepts, architecture and its applications Explores the practical benefits of Cloud computing services and deployment models in details Cloud Computing Architecture, Cloud Computing Life Cycle (CCLC), Load balancing approach, Mobile Cloud Computing (MCC), Google App Engine (GAE) Virtualization and Service-Oriented Architecture (SOA) Cloud Computing applications - Google Apps, Dropbox Cloud and Apple iCloud and its uses in various sectors - Education, Healthcare, Politics, Business, and Agriculture Cloud Computing platforms - Microsoft Azure, Amazon Web Services (AWS), Open Nebula, Eucalyptus, Open Stack, Nimbus and The Apache Hadoop Architecture Adoption

Read Free Cloud Computing For Dummies

of Cloud Computing technology and strategies for migration to the cloud Cloud computing adoption case studies - Sub-Saharan Africa and India Chapter-wise Questions with Summary and Examination Model Question papers Description With the advent of internet, there is a complete paradigm shift in the manner we comprehend computing. Need to enable ubiquity, convenient and on-demand access to resources in highly scalable and resilient environments that can be remotely accessed, gave birth to the concept of Cloud computing. The acceptance is so rapid that the notion influences sophisticated innovations in academia, industry and research world-wide and hereby change the landscape of information technology as we thought of. Through this book, the authors tried to incorporate core principles and basic notion of cloud computing in a step-by-step manner and tried to emphasize on key concepts for clear and thorough insight into the subject. This book begins with the fundamentals of cloud computing, its service and deployment models, architecture, as well as applications and platforms. It presents some key enterprise strategies and models for the adoption of and migration to cloud. Privacy and security issues and challenges also form a major part of our discussion in the book as well as case studies of cloud computing adoption in Sub-Saharan Africa and India. The book concludes with a discussion of several advanced topics, such as Amazon Web Services (AWS),

Read Free Cloud Computing For Dummies

Open Nebulla, Microsoft Azure, Apache Hadoop and Google App Engine (GAE).
What will you learn
Learn about the Importance of Cloud Computing in Current Digital Era
Understand the Core concepts and Principles of Cloud Computing with practical benefits
Learn about the Cloud Deployment models and Services
Discover how Cloud Computing Architecture works
Learn about the Load balancing approach and Mobile Cloud Computing (MCC)
Learn about the Virtualization and Service-Oriented Architecture (SOA) concepts
Learn about the various Cloud Computing applications, Platforms and Security concepts
Understand the adoption Cloud Computing technology and strategies for migration to the cloud
Case Studies for Cloud computing adoption - Sub-Saharan Africa and India
Who this book is for
This book is intended for students of B.E., B.Tech., B.Sc., M.Sc., M.E., and M.Tech. as a text book. The content is designed keeping in mind the bench marked curriculum of various universities (both National and International). The book covers not only the technical details of how cloud works but also exhibits the strategy, technical design, and in-depth knowledge required to migrate existing applications to the cloud. Therefore, it makes it relevant for the beginners who wants to learn cloud computing right from the foundation. Aspiring Cloud Computing Researchers Instructors, Academicians and Professionals, if they are familiar with cloud, can use this book

Read Free Cloud Computing For Dummies

to learn various open source cloud computing tools, applications, technologies. They will also get a flavor of various international certification exams available.

Table of contents

1. Foundation of Cloud Computing
2. Cloud Services and Deployment Models
3. Cloud Computing Architecture
4. Virtualization Technology
5. Service Oriented Architecture
6. Cloud Security and Privacy
7. Cloud Computing Applications
8. Cloud Computing Technologies, Platform and Services
9. Adoption of Cloud Computing
10. Model Paper 1
11. Model Paper 2
12. Model Paper 3
13. Model Paper 4

About the author

Kamal Kant Hiran is working as Associate Professor & Head IT in the BlueCrest University College, Liberia, West Africa as well as Research Fellow, Aalborg University, Copenhagen, Denmark. He has rich experience of 14+ years as an academician and researcher in Asia, Africa and Europe. His research interests include Cloud Computing adoption theories and framework, Internet of Things (IoT) and Digital Image and Video Processing. He has several awards on his credit such as International travel grant for Germany from ITS Europe, Gold Medal Award in M. Tech (ICT), IEEE Ghana Section Award, IEEE Senior Member Recognition, IEEE Student branch award and Best Research paper award from the University of Gondar, Ethiopia. He has published research papers in peer-reviewed international journals and conferences. He is Reviewer and Editorial board

member of various reputed International Journals in Elsevier, Springer, IEEE, Bentham Science, IGI Global, IJSET, IJTEE, IJSTR and IJERT. He is the active member in organizing many international seminars, workshops and conferences in India, Ghana, Liberia, Denmark, Jordan and Ethiopia. His website:

<http://www.kamalhiran.in/> His LinkedIn profile: [https://www.linkedin.com/in/kamal-](https://www.linkedin.com/in/kamal-kant-hiran-4553b643/)

[kant-hiran-4553b643](https://www.linkedin.com/in/kamal-kant-hiran-4553b643/) Ruchi Doshi is having more than 10 years of academic, research and software development experience in Asia and Africa. She is working as Registrar in the BlueCrest University College, Liberia, West Africa and also worked with BlueCrest University College, Ghana; Amity University, India & Trimax IT Infrastructure & Services as software engineer. She is interested in the field of Cloud computing, Computer vision, Artificial Intelligence and latest technology used in the higher education. She has published research papers in peer-reviewed international journals and conferences. She is Reviewer, Advisor, Ambassador & Editorial board member of various reputed International Journals and Conferences such as MIR Labs, USA, IEEE W4S, IJCS and IJERT. She is the active member in organizing many international events in India, Ghana, and Liberia. Her LinkedIn profile: https://www.linkedin.com/in/ruchi-doshi-96bb63b4

Dr. Fagbola Temitayo is currently a Post-Doctoral Fellow (PDF) at Durban University of Technology, South Africa and an Assistant Professor in the

Read Free Cloud Computing For Dummies

Department of Computer Science, Federal University, Oye-Ekiti, Nigeria with over 10 years of proven teaching and research experience. He bagged a Ph.D., M.Sc and B.Tech degrees in Computer Science with strong research interests in cloud computing ecosystem, deep learning, computational intelligence, social media big-data analytics, information security, decision support system and video processing. Dr Fagbola is a member of the South African Institute of Computer Scientists and Information Technologists (SAICSIT), Asian Council of Science Editors (ACSE), Machine Intelligence Institute of Africa (MIIA), Computer Professionals (Registration Council) of Nigeria (CPN), the International Association of Engineers (IAENG) and DataHack4FI in Africa. He has over 50 refereed publications in referred international journals and conference proceedings to his credit and currently serves as a reviewer for over 15 reputable international journals. He is also a recipient of the ACM FAT's grant in November 2018. His LinkedIn profile: <https://www.linkedin.com/in/temitayo-fagbola-5941a2169> Mehul Mahrishi is currently working as an Associate Professor in the Faculty of Computer Science & Engineering at the Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur, India. He is a life member of International Association of Engineers and has published several research articles in National/International Journals, Conferences

including Global Journals, ICCCTAM-Dubai, ICMLC-Singapore, IACC and chapters in books. He is also an active technical reviewer of Journal of Parallel and Distributed Computing (SCI & Scopus-Elsevier). His research activities are currently twofold: while the first research activity is set to explore the developmental enhancements video processing and analysis; the second major research theme is focused on the emerging capabilities of cloud computing. Mr. Mahrishi is rewarded at number of occasions in various domains including Recognition as an active reviewer by Journal of Parallel and Distributed Computing (JPDC, Elsevier, SCI & Scopus Indexed), IEEE continuing education certification for "e;Cloud Computing Enable Technologies and Recognition for outstanding performance in Campus Connect Program by Infosys, India. His LinkedIn profile: <https://www.linkedin.com/in/mehuk-mahrishi-30979026>

Fly higher in your Creative Cloud Adobe Creative Cloud makes the most popular tools used by designers, photographers, and other creative professionals accessible in a single place. Adobe Creative Cloud All-in-One For Dummies is the ultimate one-stop reference guide for how to use them all. Whatever gets your creative juices flowing, you'll find the in-depth guidance required to deliver the results you want, from polishing-up photos and images to creating illustrations and designs. And once your assets are just how you want them, you

Read Free Cloud Computing For Dummies

can pick up best practices for managing and publishing via the amazing Adobe Bridge. Written by pro designers for those getting started with this powerful set of tools, this book gives you an overview of Creative Cloud and step-by-step coverage of the major applications—InDesign, Illustrator, Photoshop, Acrobat Pro, and Adobe XD, and Adobe Bridge—in seven mini-books that take you from the basics to more advanced topics. You'll also discover how to get your work noticed by building personal galleries and displaying your creative wares. Find the essentials on the top tools in Adobe Creative Cloud Build and enhance your design skills Protect your documents with Acrobat Pro Get the most out of each program with insider tips Whatever your skill level and project needs, you'll find the essentials you need to demystify these complex programs and the knowledge to make your work shine even more brightly through the Cloud!

If you create, manage, operate, or configure systems running in the cloud, you're a cloud engineer--even if you work as a system administrator, software developer, data scientist, or site reliability engineer. With this book, professionals from around the world provide valuable insight into today's cloud engineering role. These concise articles explore the entire cloud computing experience, including fundamentals, architecture, and migration. You'll delve into security and compliance, operations and reliability, and software development. And examine

Read Free Cloud Computing For Dummies

networking, organizational culture, and more. You're sure to find 1, 2, or 97 things that inspire you to dig deeper and expand your own career. "Three Keys to Making the Right Multicloud Decisions," Brendan O'Leary "Serverless Bad Practices," Manases Jesus Galindo Bello "Failing a Cloud Migration," Lee Atchison "Treat Your Cloud Environment as If It Were On Premises," Iyana Garry "What Is Toil, and Why Are SREs Obsessed with It?", Zachary Nickens "Lean QA: The QA Evolving in the DevOps World," Theresa Neate "How Economies of Scale Work in the Cloud," Jon Moore "The Cloud Is Not About the Cloud," Ken Corless "Data Gravity: The Importance of Data Management in the Cloud," Geoff Hughes "Even in the Cloud, the Network Is the Foundation," David Murray "Cloud Engineering Is About Culture, Not Containers," Holly Cummins

Java distributed computing, Intranets, and Windows NT: the face of client/server computing continues to evolve. Readers can keep current with this top-selling and comprehensive reference.

Develop faster with DevOps DevOps embraces a culture of unifying the creation and distribution of technology in a way that allows for faster release cycles and more resource-efficient product updating. DevOps For Dummies provides a guidebook for those on the development or operations side in need of a primer on this way of working. Inside, DevOps evangelist Emily Freeman provides a

roadmap for adopting the management and technology tools, as well as the culture changes, needed to dive head-first into DevOps. Identify your organization's needs Create a DevOps framework Change your organizational structure Manage projects in the DevOps world DevOps For Dummies is essential reading for developers and operations professionals in the early stages of DevOps adoption.

Learn how to provide top-grade customer service anywhere, anytime with Salesforce Service Cloud Salesforce Service Cloud empowers your service organization to interact with customers through any channel and provide an individualized experience that will be worth sharing—for your customers and for your company. Salesforce Service Cloud For Dummies is one of the first books to focus specifically on Salesforce Service Cloud software. With it, you'll discover how to set up a sophisticated support center for your business in a matter of a few hours. Whether you're a service executive, manager, support agent, or system administrator, you will discover how to maximize usage of Service Cloud through best practices and step-by-step guidelines. This book will help your customer service departments gain a holistic view of the customers they serve, and provide your customers with meaningful, efficient interactions. Examines how to enable your agents to provide efficient service Discusses how to interact with customers

Read Free Cloud Computing For Dummies

through anychannel Offers insights on improving internal communication andcollaboration Shows how to resolve customer's questions in a timelymanner Take advantage of this opportunity to be heard above yourcompetition with the help of Salesforce Service Cloud ForDummies.

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 will give you the knowledge to

Read Free Cloud Computing For Dummies

understand this important topic in depth and be ready to be an agent of change in your community.

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!

Discover how data science can help you gain in-depth insight into your business -

the easy way! Jobs in data science abound, but few people have the data science skills needed to fill these increasingly important roles. *Data Science For Dummies* is the perfect starting point for IT professionals and students who want a quick primer on all areas of the expansive data science space. With a focus on business cases, the book explores topics in big data, data science, and data engineering, and how these three areas are combined to produce tremendous value. If you want to pick-up the skills you need to begin a new career or initiate a new project, reading this book will help you understand what technologies, programming languages, and mathematical methods on which to focus. While this book serves as a wildly fantastic guide through the broad, sometimes intimidating field of big data and data science, it is not an instruction manual for hands-on implementation. Here's what to expect: Provides a background in big data and data engineering before moving on to data science and how it's applied to generate value Includes coverage of big data frameworks like Hadoop, MapReduce, Spark, MPP platforms, and NoSQL Explains machine learning and many of its algorithms as well as artificial intelligence and the evolution of the Internet of Things Details data visualization techniques that can be used to showcase, summarize, and communicate the data insights you generate It's a big, big data world out there—let *Data Science For Dummies* help you harness its

Read Free Cloud Computing For Dummies

power and gain a competitive edge for your organization.

Find the right big data solution for your business or organization Big data management is one of the major challenges facing business, industry, and not-for-profit organizations. Data sets such as customer transactions for a mega-retailer, weather patterns monitored by meteorologists, or social network activity can quickly outpace the capacity of traditional data management tools. If you need to develop or manage big data solutions, you'll appreciate how these four experts define, explain, and guide you through this new and often confusing concept. You'll learn what it is, why it matters, and how to choose and implement solutions that work. Effectively managing big data is an issue of growing importance to businesses, not-for-profit organizations, government, and IT professionals Authors are experts in information management, big data, and a variety of solutions Explains big data in detail and discusses how to select and implement a solution, security concerns to consider, data storage and presentation issues, analytics, and much more Provides essential information in a no-nonsense, easy-to-understand style that is empowering Big Data For Dummies cuts through the confusion and helps you take charge of big data solutions for your organization.

Do you need to learn about cloud computing architecture with Microsoft's Azure quickly? Read this book! It gives you just enough info on the big picture and is filled with key terminology so that you can join the discussion on cloud architecture.

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both

Read Free Cloud Computing For Dummies

conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

Secure your CSSP certification CCSP is the world's leading Cloud Security certification. It covers the advanced technical skills and knowledge to design, manage, and secure data, applications, and infrastructure in the cloud using best practices, policies, and procedures. If you're a cloud security professional seeking your CSSP certification, this book is a perfect way to prepare for the exam. Covering in detail all six domains, the expert advice in this book gives you key information you'll need to pass the exam. In addition to the information covered on the exam, you'll get tips on setting up a study plan, tips for exam day, and access to an online test bank of questions. Key information for all six exam domains Test -taking and exam day tips and tricks Free online practice questions and flashcards Coverage of the core concepts From getting familiar with the core concepts to establishing a study plan, this book is all you need to hang your hat on that certification!

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

Read Free Cloud Computing For Dummies

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!

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

Read Free Cloud Computing For Dummies

Services For Dummies is exactly what you need to get your head in the cloud with Amazon Web Services!

Everything you need to get running with IaaS for Amazon Web Services Modern businesses rely on Infrastructure-as-a-Service (IaaS)—a setup in which someone else foots the bill to create application environments—and developers are expected to know how to write both platform-specific and IaaS-supported applications. If you're a developer who writes desktop and web applications but have little-to-no experience with cloud development, this book is an essential tool in getting started in the IaaS environment with Amazon Web Services. In Amazon Web Services For Developers For Dummies, you'll quickly and easily get up to speed on which language or platform will work best to meet a specific need, how to work with management consoles, ways you'll interact with services at the command line, how to create applications with the AWS API, and so much more. Assess development options to produce the kind of result that's actually needed Use the simplest approach to accomplish any given task Automate tasks using something as simple as the batch processing features offered by most platforms Create example applications using JavaScript, Python, and R Discover how to use the XML files that appear in the management console to fine tune your configuration Making sense of Amazon Web Services doesn't have to be as difficult as it seems—and this book shows you how.

Your roadmap to Microsoft Azure Azure is Microsoft's flagship cloud computing platform. With over 600 services available to over 44 geographic regions, it would take a library of books to cover the entire Azure ecosystem. Microsoft Azure For Dummies offers a shortcut to getting familiar with Azure's core product offerings used by the majority of its subscribers. It's a

Read Free Cloud Computing For Dummies

perfect choice for those looking to gain a quick, basic understanding of this ever-evolving public cloud platform. Written by a Microsoft MVP and Microsoft Certified Azure Solutions Architect, Microsoft Azure For Dummies covers building virtual networks, configuring cloud-based virtual machines, launching and scaling web applications, migrating on-premises services to Azure, and keeping your Azure resources secure and compliant. Migrate your applications and services to Azure with confidence Manage virtual machines smarter than you've done on premises Deploy web applications that scale dynamically to save you money and effort Apply Microsoft's latest security technologies to ensure compliance to maintain data privacy With more and more businesses making the leap to run their applications and services on Microsoft Azure, basic understanding of the technology is becoming essential. Microsoft Azure For Dummies offers a fast and easy first step into the Microsoft public cloud.

Becoming a master of networking has never been easier Whether you're in charge of a small network or a large network, Networking All-in-One is full of the information you'll need to set up a network and keep it functioning. Fully updated to capture the latest Windows 10 releases through Spring 2018, this is the comprehensive guide to setting up, managing, and securing a successful network. Inside, nine minibooks cover essential, up-to-date information for networking in systems such as Windows 10 and Linux, as well as best practices for security, mobile and cloud-based networking, and much more. Serves as a single source for the most-often needed network administration information Covers the latest trends in networking Get nine detailed and easy-to-understand networking minibooks in one affordable package Networking All-in-One For Dummies is the perfect beginner's guide as well as the professional's ideal reference book.

Read Free Cloud Computing For Dummies

Cloud Computing For Beginners With Examples: Do you know that cloud computing is being used by just about every person or organization on the internet now in some form? Most people use the cloud and never even think about it. In this book, you're going to learn how the cloud operates, how it can help you, and the various types of cloud computing. You're going to see them in action. Primarily, we'll cover infrastructure as a service and how it relates to virtualization, the difference between private cloud, hybrid cloud, and public cloud. I'll include how to transfer to the cloud, how infrastructure-as-a-service, networking, security, and storage works. What platform-as-a-service is and how it relates to infrastructure-as-a-service and finally, how software-as-a-service makes your life so much easier.

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.

Cloud computing can be difficult to understand at first, but the cost-saving possibilities

Read Free Cloud Computing For Dummies

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.

Regardless of where your organization is in your cloud journey, moving to the cloud is an inevitability in the coming years. The cloud is here to stay, and now is the best time

Read Free Cloud Computing For Dummies

to identify optimal strategies to harness the benefits and mitigate the risks. Cloud Computing Basics is the practical, accessible entry point you have been seeking. Get an introduction to the basics of cloud computing and all five major cloud platforms. Author Anders Lisdorf ensures that you gain a fundamental cloud vocabulary and learn how to translate industry terms used by different vendors. Leveraging the economic and security benefits that the cloud provides can look very different for each organization, and Lisdorf uses his expertise to help you adapt your strategy accordingly. Cloud Computing Basics is here to bring your organization into the future. Whether you are a beginner on the topic or a tech leader kick-starting change within your company, this book provides essential insights for cloud adoption and its benefits for our modern digital era. Do not get left behind, and add Cloud Computing Basics to your tech bookshelf today.

What You Will Learn

- Understand what the cloud is and how it differs from traditional on-premise solutions
- Gain a fundamental cloud vocabulary and learn how to translate between it and the terms used by different vendors
- Know the main components of the cloud and how they are used
- Be aware of the vendors in the cloud market, their strengths and weaknesses, and what to expect from them
- Tailor the optimal cloud solution to the organizational context
- Study different approaches to cloud adoption and the contexts in which they are suitable so you can determine how your organization will get the most benefit from the cloud

Who This Book Is For

A general business audience that wants to catch up on the basics of cloud computing in order to

Read Free Cloud Computing For Dummies

have informed conversations with technical professionals and vendors. The book is for anyone interested in a deeper understanding of what the cloud is, where it came from, and how it will impact every organization in the future. A basic understanding of information technology helps, but is not required.

The Cloud Computing Bible is a complete reference to cloud computing that presents the technologies, protocols, platforms and infrastructure that make cloud computing possible and desirable. Many of the cloud computing books on the market today are small books of 300 pages or less and the larger books tend to be programming books or security titles. A longer format book such as Cloud Computing Bible allows a complete definition of the topic as well as in-depth introductions to essential technologies and platforms. Additionally it allows significant technologies to be presented in a form that provides enough detail for the reader to determine if it is something that they are interested in learning more about. It is important to stress platform and technologies as the main subject and intersperse that with products in order to provide an extended life span, but have current appeal. The book will be divided into five parts: The Value Proposition, Platforms, Infrastructure, Services and Applications, and The Mobile Cloud.

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

Read Free Cloud Computing For Dummies

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.

Explores cloud computing, breaking down the concepts, models, mechanisms, and architectures of this technology while allowing for the financial assessment of resources and how they compare to traditional storage systems.

A plain-English guide to managing IT from the customer's perspective Practical

Read Free Cloud Computing For Dummies

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.

Choose the best cloud solutions for your needs. Cloud computing is a topic that technology pros need to know to stay ahead of the computing game. *Cloud Computing For Dummies* comes to the rescue of those still trying to sort out the many options in the world of cloud. Judith Hurwitz and her team of analysts share the cloud insights they earned by consulting with some of the world's largest companies. Peek inside to sort out topics like multi-cloud architecture, hybrid-cloud infrastructure, development in the cloud, and software as a service. Understand how the cloud can improve your business. Explore cloud models including hybrid and multi-cloud environments. See how infrastructure and software can be delivered as a service. Discover best practices. This edition is written for IT professionals, decision makers, and others who need general knowledge about cloud computing, how it works, and what options they have.

Cloud Computing For Dummies John Wiley & Sons

Read Free Cloud Computing For Dummies

A comprehensive guide to learning technologies that unlock the value in big data. Cognitive Computing provides detailed guidance toward building a new class of systems that learn from experience and derive insights to unlock the value of big data. This book helps technologists understand cognitive computing's underlying technologies, from knowledge representation techniques and natural language processing algorithms to dynamic learning approaches based on accumulated evidence, rather than reprogramming. Detailed case examples from the financial, healthcare, and manufacturing walk readers step-by-step through the design and testing of cognitive systems, and expert perspectives from organizations such as Cleveland Clinic, Memorial Sloan-Kettering, as well as commercial vendors that are creating solutions. These organizations provide insight into the real-world implementation of cognitive computing systems. The IBM Watson cognitive computing platform is described in a detailed chapter because of its significance in helping to define this emerging market. In addition, the book includes implementations of emerging projects from Qualcomm, Hitachi, Google and Amazon. Today's cognitive computing solutions build on established concepts from artificial intelligence, natural language processing, ontologies, and leverage advances in big data management and analytics. They foreshadow an intelligent infrastructure that enables a new generation of customer and context-aware smart applications in all industries. Cognitive Computing is a comprehensive guide to the subject, providing both the theoretical and practical guidance technologists need. Discover how cognitive computing evolved from promise to reality. Learn the elements that make up a cognitive computing system. Understand the groundbreaking hardware and software technologies behind cognitive computing. Learn to evaluate your own application portfolio to find the best candidates for pilot projects. Leverage

Read Free Cloud Computing For Dummies

cognitive computing capabilities to transform the organization. Cognitive systems are rightly being hailed as the new era of computing. Learn how these technologies enable emerging firms to compete with entrenched giants, and forward-thinking established firms to disrupt their industries. Professionals who currently work with big data and analytics will see how cognitive computing builds on their foundation, and creates new opportunities. Cognitive Computing provides complete guidance to this new level of human-machine interaction.

Cloud native infrastructure is more than servers, network, and storage in the cloud—it is as much about operational hygiene as it is about elasticity and scalability. In this book, you'll learn practices, patterns, and requirements for creating infrastructure that meets your needs, capable of managing the full life cycle of cloud native applications. Justin Garrison and Kris Nova reveal hard-earned lessons on architecting infrastructure from companies such as Google, Amazon, and Netflix. They draw inspiration from projects adopted by the Cloud Native Computing Foundation (CNCF), and provide examples of patterns seen in existing tools such as Kubernetes. With this book, you will:

- Understand why cloud native infrastructure is necessary to effectively run cloud native applications
- Use guidelines to decide when—and if—your business should adopt cloud native practices
- Learn patterns for deploying and managing infrastructure and applications
- Design tests to prove that your infrastructure works as intended, even in a variety of edge cases
- Learn how to secure infrastructure with policy as code

Keep prying eyes out of your cloud. The cloud is a godsend for data. There's no better way to store and distribute the info you need to the users who need it. Unfortunately the cloud is also an attractive target of hackers and other online bad guys looking to take your data, and your

Read Free Cloud Computing For Dummies

business, hostage. Cloud Security For Dummies provides a clear path to a clearer mind as it walks you through the steps of adding and improving the walls protecting your data. Learn to think about the cloud like a certified security pro and keep your data safe in the cloud. Inside...

- * Explore the security needed for various cloud apps
- * Set policies with security in mind
- * Work with tools provided by top vendors
- * Build security into your network architecture
- * Add cloud protection in your network
- * Build an operations process
- * Perform audits to assure compliance

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

[Copyright: 27e0695239c3fcd690a79032d305eefd](https://www.syngress.com/books/9781617292305)