

Mastering Cloud Computing Final Buyya

Big Data Rajkumar Buyya, Rodrigo N. Calheiros, Amir Vahid Dastjerdi. 2016-06-07 *Big Data: Principles and Paradigms* captures the state-of-the-art research on the architectural aspects, technologies, and applications of Big Data. The book identifies potential future directions and technologies that facilitate insight into numerous scientific, business, and consumer applications. To help realize Big Data's full potential, the book addresses numerous challenges, offering the conceptual and technological solutions for tackling them. These challenges include life-cycle data management, large-scale storage, flexible processing infrastructure, data modeling, scalable machine learning, data analysis algorithms, sampling techniques, and privacy and ethical issues. Covers computational platforms supporting Big Data applications Addresses key principles underlying Big Data computing Examines key developments supporting next generation Big Data platforms Explores the challenges in Big Data computing and ways to overcome them Contains expert contributors from both academia and industry

Internet of Things Rajkumar Buyya, Amir Vahid Dastjerdi. 2016-05-11 *Internet of Things: Principles and Paradigms* captures the state-of-the-art research in Internet of Things, its applications, architectures, and technologies. The book identifies potential future directions and technologies that facilitate insight into numerous scientific, business, and consumer applications. The Internet of Things (IoT) paradigm promises to make any electronic devices part of the Internet environment. This new paradigm opens the doors to new innovations and interactions between people and things

that will enhance the quality of life and utilization of scarce resources. To help realize the full potential of IoT, the book addresses its numerous challenges and develops the conceptual and technological solutions for tackling them. These challenges include the development of scalable architecture, moving from closed systems to open systems, designing interaction protocols, autonomic management, and the privacy and ethical issues around data sensing, storage, and processing. Addresses the main concepts and features of the IoT paradigm Describes different architectures for managing IoT platforms Provides insight on trust, security, and privacy in IoT environments Describes data management techniques applied to the IoT environment Examines the key enablers and solutions to enable practical IoT systems Looks at the key developments that support next generation IoT platforms Includes input from expert contributors from both academia and industry on building and deploying IoT platforms and applications

CSA Guide to Cloud Computing Raj Samani,Jim Reavis,Brian Honan.2014-09-22 CSA Guide to Cloud Computing brings you the most current and comprehensive understanding of cloud security issues and deployment techniques from industry thought leaders at the Cloud Security Alliance (CSA). For many years the CSA has been at the forefront of research and analysis into the most pressing security and privacy related issues associated with cloud computing. CSA Guide to Cloud Computing provides you with a one-stop source for industry-leading content, as well as a roadmap into the future considerations that the cloud presents. The authors of CSA Guide to Cloud Computing provide a wealth of industry expertise you won't find anywhere else. Author Raj Samani is the Chief Technical Officer for McAfee EMEA; author Jim Reavis is the Executive Director of CSA; and author Brian Honan is recognized as an industry leader in the ISO27001 standard. They will walk you through everything you need to understand to implement a secure cloud computing

structure for your enterprise or organization. Your one-stop source for comprehensive understanding of cloud security from the foremost thought leaders in the industry Insight into the most current research on cloud privacy and security, compiling information from CSA's global membership Analysis of future security and privacy issues that will impact any enterprise that uses cloud computing

Reliability Aspect of Cloud Computing Environment Vikas Kumar,R. Vidhyalakshmi.2018-11-02 This book presents both qualitative and quantitative approaches to cloud reliability measurements, together with specific case studies to reflect the real-time reliability applications. Traditional software reliability models cannot be used for cloud reliability evaluation due to the changes in the development architecture and delivery designs. The customer-vendor relationship mostly comes to a close with traditional software installations, whereas a SaaS subscription is just a start of the customer-vendor relationship. Reliability of cloud services is normally presented in terms of percentage, such as 99.9% or 99.99%. However, this type of reliability measurement provides confidence only in the service availability feature and may cover all the quality attributes of the product. The book offers a comprehensive review of the reliability models suitable for different services and deployments to help readers identify the appropriate cloud products for individual business needs. It also helps developers understand customer expectations and, most importantly, helps vendors to improve their service and support. As such it is a valuable resource for cloud customers, developers, vendors and the researchers.

Cloud Computing Rajkumar Buyya,James Broberg,Andrzej M. Goscinski.2010-12-17 The primary purpose of this book is to capture the state-of-the-art in Cloud Computing technologies and applications. The book will also aim to identify potential research directions and technologies that

will facilitate creation a global market-place of cloud computing services supporting scientific, industrial, business, and consumer applications. We expect the book to serve as a reference for larger audience such as systems architects, practitioners, developers, new researchers and graduate level students. This area of research is relatively recent, and as such has no existing reference book that addresses it. This book will be a timely contribution to a field that is gaining considerable research interest, momentum, and is expected to be of increasing interest to commercial developers. The book is targeted for professional computer science developers and graduate students especially at Masters level. As Cloud Computing is recognized as one of the top five emerging technologies that will have a major impact on the quality of science and society over the next 20 years, its knowledge will help position our readers at the forefront of the field.

Programming Google App Engine Dan Sanderson.2009-11-23 As one of today's cloud computing services, Google App Engine does more than provide access to a large system of servers. It also offers you a simple model for building applications that scale automatically to accommodate millions of users. With *Programming Google App Engine*, you'll get expert practical guidance that will help you make the best use of this powerful platform. Google engineer Dan Sanderson shows you how to design your applications for scalability, including ways to perform common development tasks using App Engine's APIs and scalable services. You'll learn about App Engine's application server architecture, runtime environments, and scalable datastore for distributing data, as well as techniques for optimizing your application. App Engine offers nearly unlimited computing power, and this book provides clear and concise instructions for getting the most from it right from the source. Discover the differences between traditional web development and development with App Engine Learn the details of App Engine's Python and Java runtime environments Understand how

App Engine handles web requests and executes application code Learn how to use App Engine's scalable datastore, including queries and indexes, transactions, and data modeling Use task queues to parallelize and distribute work across the infrastructure Deploy and manage applications with ease

Cloud Computing Basics T. B. Rehman.2018-11-29 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.

Industry Trends in Cloud Computing David Dempsey,Felicity Kelliher.2017-11-07 Exploring the Cloud Computing (CC) commercial landscape as it matures; this book asserts that the key ingredient in sustaining the Software as a Service (SaaS) business model is subscription renewal. Chronicling the evolution and future trajectory of the CC concept, the authors examine the new paradigm it is creating for the distribution of computer software applications among business-to-business (B2B) clients. CC enabled SaaS has been fundamentally changing the revenue expectations and business model for the application software industry, and impacting on how SaaS providers pursue, acquire and retain B2B clients. Securing SaaS subscription renewal is critical to the survival and prosperity

of this business as attrition can have a significant impact on the financial viability of SaaS businesses based on this model. Focusing on the B2B client and the SaaS industry dependency on renewal subscriptions delivered through the CC channel, the primary research presented in this book seeks to examine the key drivers behind the B2B SaaS subscription renewal decision and, in doing so, to explore the recurring revenue framework for the Cloud SaaS business.

Mastering Cloud Development using Microsoft Azure Roberto Freato, Marco

Parenzan.2016-06-28 Master the art of efficiently composing Azure services and implement them in real-world scenarios About This Book Build an effective development environment in Azure using the right set of technologies. Architect a full-stack solution in the cloud to choose the best service set A comprehensive guide full of real-life examples to help you take your developer skills up a notch Who This Book Is For If you are a developer, a full-stack developer, or an architect with an intermediate level understanding of cloud computing and Microsoft Azure, and you want to take your skills up a notch, this book is for you. Prior knowledge and understanding of cloud development strategies is assumed. What You Will Learn Set up a development environment with VMs, ARM, and RemoteApp Connect with VPNs to manage security and backups Establish a front-end architecture with AppService, storage, search, and caching Implement identity solutions, integrate applications, and use data Integrate cross-platform mobile applications with the cloud Consistently build and manage an API layer for millions of users Work with messages in the enterprise Deploy your services as an IT expert with ARM templates In Detail Microsoft Azure is a cloud computing platform that supports many different programming languages, tools, and frameworks, including both Microsoft-specific and third-party software and systems. This book starts by helping you set up a professional development environments in the cloud and integrating them with your local environment to achieve

improved efficiency. You will move on to create front-end and back-end services, and then build cross-platform applications using Azure. Next you'll get to grips with advanced techniques used to analyze usage data and automate billing operations. Following on from that, you will gain knowledge of how you can extend your on-premise solution to the cloud and move data in a pipeline. In a nutshell, this book will show you how to build high-quality, end-to-end services using Microsoft Azure. By the end of this book, you will have the skillset needed to successfully set up, develop, and manage a full-stack Azure infrastructure. **Style and Approach** This comprehensive guide to Azure has both explorative parts and step-by-step ones. Each chapter defines a learning path to a specific scenario, mixing the appropriate technologies and building blocks efficiently.

The Cloud Computing Book Sanne de Boer.2015

Cloud Computing Hiran Kamal Kant.2019-09-20 Unleash the power of cloud computing using Azure, AWS and Apache Hadoop
Key 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 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), Open Nebula, 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 to learn various open source cloud computing tools, applications, technologies. They will also get a flavor of various international certification exams available. Table of contents1. Foundation of Cloud Computing 2. Cloud Services and Deployment Models3. Cloud Computing Architecture4. Virtualization Technology5. Service Oriented Architecture6. Cloud Security and Privacy7. Cloud Computing Applications8. Cloud Computing Technologies, Platform and Services9. Adoption of Cloud Computing10. Model Paper 111. Model Paper 212. Model Paper 313. Model Paper 4 About the authorKamal 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:

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<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 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>

Handbook of Cloud Computing Borko Furht, Armando Escalante. 2010-09-11 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.

Encyclopedia of Cloud Computing San Murugesan,Irena Bojanova.2016-05-09 The Encyclopedia of Cloud Computing provides IT professionals, educators, researchers and students with a compendium of cloud computing knowledge. Authored by a spectrum of subject matter experts in industry and academia, this unique publication, in a single volume, covers a wide range of cloud computing topics, including technological trends and developments, research opportunities, best practices, standards, and cloud adoption. Providing multiple perspectives, it also addresses questions that stakeholders might have in the context of development, operation, management, and use of clouds. Furthermore, it examines cloud computing's impact now and in the future. The encyclopedia presents 56 chapters logically organized into 10 sections. Each chapter covers a major topic/area with cross-references to other chapters and contains tables, illustrations, side-bars as appropriate. Furthermore, each chapter presents its summary at the beginning and backend material, references and additional resources for further information.

Intelligent Systems Siba K. Udgata, Srinivas Sethi, Satish N. Srirama. 2021-04-19 This book features best selected research papers presented at the International Conference on Machine Learning, Internet of Things and Big Data (ICMIB 2020) held at Indira Gandhi Institute of Technology, Sarang, India, during September 2020. It comprises high-quality research work by academicians and industrial experts in the field of machine learning, mobile computing, natural language processing, fuzzy computing, green computing, human-computer interaction, information retrieval, intelligent control, data mining and knowledge discovery, evolutionary computing, IoT and applications in smart environments, smart health, smart city, wireless networks, big data, cloud computing, business intelligence, internet security, pattern recognition, predictive analytics applications in healthcare, sensor networks and social sensing and statistical analysis of search techniques.

Big Data, Big Analytics Michael Minelli, Michele Chambers, Ambiga Dhiraj. 2013-01-22 Unique perspective on the big data analytics phenomenon for both business and IT professionals The availability of Big Data, low-cost commodity hardware and new information management and analytics software has produced a unique moment in the history of business. The convergence of these trends means that we have the capabilities required to analyze astonishing data sets quickly and cost-effectively for the first time in history. These capabilities are neither theoretical nor trivial. They represent a genuine leap forward and a clear opportunity to realize enormous gains in terms of efficiency, productivity, revenue and profitability. The Age of Big Data is here, and these are truly revolutionary times. This timely book looks at cutting-edge companies supporting an exciting new generation of business analytics. Learn more about the trends in big data and how they are impacting the business world (Risk, Marketing, Healthcare, Financial Services, etc.) Explains this new technology and how companies can use them effectively to gather the data that they need and

glean critical insights Explores relevant topics such as data privacy, data visualization, unstructured data, crowd sourcing data scientists, cloud computing for big data, and much more.

Cloud Computing: A Practical Approach Toby Velte,Anthony Velte,Robert Elsenpeter.2009-10-22

The promise of cloud computing is here. These pages provide the 'eyes wide open' insights you need to transform your business. --Christopher Crowhurst, Vice President, Strategic Technology, Thomson Reuters A Down-to-Earth Guide to Cloud Computing Cloud Computing: A Practical Approach provides a comprehensive look at the emerging paradigm of Internet-based enterprise applications and services. This accessible book offers a broad introduction to cloud computing, reviews a wide variety of currently available solutions, and discusses the cost savings and organizational and operational benefits. You'll find details on essential topics, such as hardware, platforms, standards, migration, security, and storage. You'll also learn what other organizations are doing and where they're headed with cloud computing. If your company is considering the move from a traditional network infrastructure to a cutting-edge cloud solution, you need this strategic guide. Cloud Computing: A Practical Approach covers: Costs, benefits, security issues, regulatory concerns, and limitations Service providers, including Google, Microsoft, Amazon, Yahoo, IBM, EMC/VMware, Salesforce.com, and others Hardware, infrastructure, clients, platforms, applications, services, and storage Standards, including HTTP, HTML, DHTML, XMPP, SSL, and OpenID Web services, such as REST, SOAP, and JSON Platform as a Service (PaaS), Software as a Service (SaaS), and Software plus Services (S+S) Custom application development environments, frameworks, strategies, and solutions Local clouds, thin clients, and virtualization Migration, best practices, and emerging standards

Cloud Computing Thomas Erl,Ricardo Puttini,Zaigham Mahmood.2013 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.

Cloud Data Centers and Cost Modeling Caesar Wu, Rajkumar Buyya. 2015-02-27 Cloud Data Centers and Cost Modeling establishes a framework for strategic decision-makers to facilitate the development of cloud data centers. Just as building a house requires a clear understanding of the blueprints, architecture, and costs of the project; building a cloud-based data center requires similar knowledge. The authors take a theoretical and practical approach, starting with the key questions to help uncover needs and clarify project scope. They then demonstrate probability tools to test and support decisions, and provide processes that resolve key issues. After laying a foundation of cloud concepts and definitions, the book addresses data center creation, infrastructure development, cost modeling, and simulations in decision-making, each part building on the previous. In this way the authors bridge technology, management, and infrastructure as a service, in one complete guide to data centers that facilitates educated decision making. Explains how to balance cloud computing functionality with data center efficiency Covers key requirements for power management, cooling, server planning, virtualization, and storage management Describes advanced methods for modeling cloud computing cost including Real Option Theory and Monte Carlo Simulations Blends theoretical and practical discussions with insights for developers, consultants, and analysts considering data center development

Cloud Computing Sandeep Bhowmik. 2017-07-04 Follows structured approach explaining cloud techniques, models and platforms--

Cloud Computing Bible Barrie Sosinsky. 2010-12-10 The complete reference guide to the hot

technology of cloud computing Its potential for lowering IT costs makes cloud computing a major force for both IT vendors and users; it is expected to gain momentum rapidly with the launch of Office Web Apps later this year. Because cloud computing involves various technologies, protocols, platforms, and infrastructure elements, this comprehensive reference is just what you need if you'll be using or implementing cloud computing. Cloud computing offers significant cost savings by eliminating upfront expenses for hardware and software; its growing popularity is expected to skyrocket when Microsoft introduces Office Web Apps This comprehensive guide helps define what cloud computing is and thoroughly explores the technologies, protocols, platforms and infrastructure that make it so desirable Covers mobile cloud computing, a significant area due to ever-increasing cell phone and smartphone use Focuses on the platforms and technologies essential to cloud computing Anyone involved with planning, implementing, using, or maintaining a cloud computing project will rely on the information in Cloud Computing Bible.

Cloud Computing Dan C. Marinescu.2013-05-30 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 succeed than previous efforts in large-scale distributed computing

Machine Intelligence and Big Data Analytics for Cybersecurity Applications Yassine

Maleh, Mohammad Shojafar, Mamoun Alazab, Youssef Baddi. 2020-12-14 This book presents the latest advances in machine intelligence and big data analytics to improve early warning of cyber-attacks, for cybersecurity intrusion detection and monitoring, and malware analysis. Cyber-attacks have posed real and wide-ranging threats for the information society. Detecting cyber-attacks becomes a challenge, not only because of the sophistication of attacks but also because of the large scale and complex nature of today's IT infrastructures. It discusses novel trends and achievements in machine intelligence and their role in the development of secure systems and identifies open and future research issues related to the application of machine intelligence in the cybersecurity field. Bridging an important gap between machine intelligence, big data, and cybersecurity communities, it aspires to provide a relevant reference for students, researchers, engineers, and professionals working in this area or those interested in grasping its diverse facets and exploring the latest advances on machine intelligence and big data analytics for cybersecurity applications.

Cloud Computing: A Hands-On Approach Arshdeep Bahga, Vijay Madisetti. 2013-12-09 About the Book Recent industry surveys expect the cloud computing services market to be in excess of \$20 billion and cloud computing jobs to be in excess of 10 million worldwide in 2014 alone. In addition, since a majority of existing information technology (IT) jobs is focused on maintaining legacy in-

house systems, the demand for these kinds of jobs is likely to drop rapidly if cloud computing continues to take hold of the industry. However, there are very few educational options available in the area of cloud computing beyond vendor-specific training by cloud providers themselves. Cloud computing courses have not found their way (yet) into mainstream college curricula. This book is written as a textbook on cloud computing for educational programs at colleges. It can also be used by cloud service providers who may be interested in offering a broader perspective of cloud computing to accompany their own customer and employee training programs. The typical reader is expected to have completed a couple of courses in programming using traditional high-level languages at the college-level, and is either a senior or a beginning graduate student in one of the science, technology, engineering or mathematics (STEM) fields. We have tried to write a comprehensive book that transfers knowledge through an immersive hands-on approach, where the reader is provided the necessary guidance and knowledge to develop working code for real-world cloud applications. Additional support is available at the book's website:

www.cloudcomputingbook.info Organization The book is organized into three main parts. Part I covers technologies that form the foundations of cloud computing. These include topics such as virtualization, load balancing, scalability & elasticity, deployment, and replication. Part II introduces the reader to the design & programming aspects of cloud computing. Case studies on design and implementation of several cloud applications in the areas such as image processing, live streaming and social networks analytics are provided. Part III introduces the reader to specialized aspects of cloud computing including cloud application benchmarking, cloud security, multimedia applications and big data analytics. Case studies in areas such as IT, healthcare, transportation, networking and education are provided.

Cloud Computing Security John R. Vacca.2020-11-09 This handbook offers a comprehensive overview of cloud computing security technology and implementation while exploring practical solutions to a wide range of cloud computing security issues. As more organizations use cloud computing and cloud providers for data operations, the need for proper security in these and other potentially vulnerable areas has become a global priority for organizations of all sizes. Research efforts from academia and industry, as conducted and reported by experts in all aspects of security related to cloud computing, are gathered within one reference guide. Features • Covers patching and configuration vulnerabilities of a cloud server • Evaluates methods for data encryption and long-term storage in a cloud server • Demonstrates how to verify identity using a certificate chain and how to detect inappropriate changes to data or system configurations John R. Vacca is an information technology consultant and internationally known author of more than 600 articles in the areas of advanced storage, computer security, and aerospace technology. John was also a configuration management specialist, computer specialist, and the computer security official (CSO) for NASA's space station program (Freedom) and the International Space Station Program from 1988 until his retirement from NASA in 1995.

MASTERING CLOUD COMPUTING (Foundations and Applications Programming) Yoesoep Edhie Rachmad,Rizki Dewantara,Robet,Satrio Junaidi,Mohamad Firdaus,Sulistianto SW, Sepriano, Efitra.2023-02-26 Sistem teknologi informasi yang dikenal dengan Cloud Computing saat ini menjadi bahan pembicaraan di seluruh dunia. Istilah komputasi awan mulai sering digunakan, dan pertumbuhannya luar biasa. Apa sebenarnya komputasi awan itu? Industri TI di mana sistem hanya disewa dikenal sebagai komputasi awan. Artinya, pelanggan harus menyewa berbagai komponen kerja TI, seperti server penyimpanan data hingga pusat data, untuk menerapkan

metode ini. Kami dapat memperkirakan bahwa ketersediaan layanan cloud akan menyederhanakan standar teknologi di masa mendatang berdasarkan tren ini. Pertarungan untuk menjadi penguasa paling kuat dari teknologi cloud saat ini melibatkan semua pemain utama, termasuk IBM, Microsoft, Google, dan Apple, Buku ini menjelaskan tentang Cloud Computing mulai dari Pengertian, Arsitektur, Struktur, Manajemen Cloud, Teknologi cloud, Sistem Penyimpanan, Sistem Keamanan dan Implementasinya.

Software Testing Srinivasan Desikan, Gopalaswamy Ramesh. 2006 Software Testing: Principles and Practices is a comprehensive treatise on software testing. It provides a pragmatic view of testing, addressing emerging areas like extreme testing and ad hoc testing--Resource description page.

Intelligent and Cloud Computing Debahuti Mishra, Rajkumar Buyya, Prasant Mohapatra, Srikanta Patnaik. 2020-08-28 This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

Mastering Cloud Computing Nikhilesh Mishra. 2023-09-17 Embark on an enlightening journey through the captivating realm of Mastering Cloud Computing: Concepts, Techniques, and

Applications This comprehensive book is your key to unlocking the vast potential of cloud technology. Explore the foundational principles of cloud computing, from historical roots to cutting-edge trends. Dive deep into cloud infrastructure, security, and governance. Navigate cloud networking, architecture, and storage with confidence. Discover strategies for cost management, optimization, and sustainability. Contemplate the ethical and sustainable dimensions of cloud technology. Whether you're a cloud enthusiast or an experienced professional, *Mastering Cloud Computing: Concepts, Techniques, and Applications* empowers you to reshape your understanding and become a trailblazer in the world of cloud technology. Don't miss this opportunity-secure your copy today and embark on a journey of innovation and knowledge!

Cloud Computing Kamal Kant Hiran,Ruchi Doshi,Temitayo Fagbola,Mehul Mahrishi.2019-05-01 Unleash the power of cloud computing using Azure, AWS and Apache Hadoop 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. Audience 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 to learn various open source cloud computing tools, applications, technologies. They will also get a flavor of various international certification exams available. What will you learn

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- ¥ Virtualization and Service-Oriented Architecture (SOA)
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- ¥ Cloud Computing platforms - Microsoft Azure, Amazon Web Services (AWS), Open Nebulla, Eucalyptus, Open Stack, Nimbus and The Apache Hadoop Architecture
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Mastering Cloud Computing Rajkumar Buyya, Christian Vecchiola, S. Thamarai Selvi. 2013-04-05
Mastering Cloud Computing is designed for undergraduate students learning to develop cloud computing applications. Tomorrow's applications won't live on a single computer but will be deployed from and reside on a virtual server, accessible anywhere, any time. Tomorrow's application developers need to understand the requirements of building apps for these virtual systems, including concurrent programming, high-performance computing, and data-intensive systems. The book introduces the principles of distributed and parallel computing underlying cloud architectures and specifically focuses on virtualization, thread programming, task programming, and map-reduce programming. There are examples demonstrating all of these and more, with exercises and labs throughout. Explains how to make design choices and tradeoffs to consider when building applications to run in a virtual cloud environment Real-world case studies include scientific, business, and energy-efficiency considerations

Research Advances in Cloud Computing Sanjay Chaudhary, Gaurav Somani, Rajkumar Buyya. 2017-12-28 This book addresses the emerging area of cloud computing, providing a comprehensive overview of the research areas, recent work and open research problems. The move to cloud computing is no longer merely a topic of discussion; it has become a core competency that

every modern business needs to embrace and excel at. It has changed the way enterprise and internet computing is viewed, and this success story is the result of the long-term efforts of computing research community around the globe. It is predicted that by 2026 more than two-thirds of all enterprises across the globe will be entirely run in cloud. These predictions have led to huge levels of funding for research and development in cloud computing and related technologies. Accordingly, universities across the globe have incorporated cloud computing and its related technologies in their curriculum, and information technology (IT) organizations are accelerating their skill-set evolution in order to be better prepared to manage emerging technologies and public expectations of the cloud, such as new services.

Programming with ANSI C++ Bhushan Trivedi.2013-07-18 The second edition of Programming with ANSI C++ is a comprehensive text that covers all the technical aspects of object-oriented programming through ANSI C++. Designed to serve as a textbook for the students of CSE and IT, as well as those pursuing MCA, it provides a solid understanding of the fundamental concepts without obscuring the text with heavy details. Through more than 400 application-oriented programs, it brings the readers close to the practical aspects of C++.

Intelligent and Cloud Computing Debahuti Mishra,Rajkumar Buyya,Prasant Mohapatra,Srikanta Patnaik.2021-11-01 This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and

networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

Service-oriented Computing Dimitrios Georgakopoulos, M. Papazoglou. 2009 Service-Oriented Computing (SOC) promises a world of co-operating services loosely connected, creating dynamic business processes and agile applications that span organizations and platforms. The contributors to this volume treat topics related to SOA and such proposed enhancements to it as Event Driven Architecture (EDA) and extended SOA (xSOA) as well as engineering aspects of SOA-based applications. In particular, the chapters discuss modelling of SOA-based applications, SOA architecture design, business process management, transactional integrity, quality of service (QoS) and service agreements, service requirements engineering, re-use, and adaptation.

Mobile Edge Computing Anwasha Mukherjee, Debashis De, Soumya K. Ghosh, Rajkumar Buyya. 2021-11-18 Mobile Edge Computing (MEC) provides cloud-like subscription-oriented services at the edge of mobile network. For low latency and high bandwidth services, edge computing assisted IoT (Internet of Things) has become the pillar for the development of smart environments and their applications such as smart home, smart health, smart traffic management, smart agriculture, and smart city. This book covers the fundamental concept of the MEC and its real-time applications. The book content is organized into three parts: Part A covers the architecture and working model of MEC, Part B focuses on the systems, platforms, services and issues of MEC, and Part C emphasizes on various applications of MEC. This book is targeted for graduate students, researchers, developers, and service providers interested in learning about the state-of-the-art in

MEC technologies, innovative applications, and future research directions.

Big Data Computing Rajendra Akerkar.2013-12-05 Due to market forces and technological evolution, Big Data computing is developing at an increasing rate. A wide variety of novel approaches and tools have emerged to tackle the challenges of Big Data, creating both more opportunities and more challenges for students and professionals in the field of data computation and analysis. Presenting a mix of industry cases and theory, Big Data Computing discusses the technical and practical issues related to Big Data in intelligent information management. Emphasizing the adoption and diffusion of Big Data tools and technologies in industry, the book introduces a broad range of Big Data concepts, tools, and techniques. It covers a wide range of research, and provides comparisons between state-of-the-art approaches. Comprised of five sections, the book focuses on: What Big Data is and why it is important Semantic technologies Tools and methods Business and economic perspectives Big Data applications across industries

Mastering Cloud Computing Technology 1st Ganesh Kumar R, 1st,2nd Rituraj Jain, 2nd,3rd Amit Shrivastava, 3rd,S. V. N. Sreenivasu, IV.2021-09-19 Concepts, Technology, and Architecture is the result of years of research and analysis of the commercial cloud computing industry, cloud computing vendor platforms, and further innovation and contributions made by cloud computing industry standards organizations and practitioners. This book breaks down proven and mature cloud computing technologies and practices into a series of well-defined concepts, models, and technology mechanisms. In doing so, the book establishes concrete, academic coverage of fundamental aspects of cloud computing concepts and technologies, carefully described to ensure full alignment with the cloud computing industry. It helps to understand the working and the principle of the cloud at a higher level.

The Cloud Computing Book Douglas Comer.2021-06-30 The latest textbook from best-selling author Provides a comprehensive introduction to cloud computing

Handbook of Research on End-to-End Cloud Computing Architecture Design Chen, Jianwen “Wendy”,Zhang, Yan,Gottschalk, Ron.2016-10-06 Cloud computing has become integrated into all sectors, from business to quotidian life. Since it has revolutionized modern computing, there is a need for updated research related to the architecture and frameworks necessary to maintain its efficiency. The Handbook of Research on End-to-End Cloud Computing Architecture Design provides architectural design and implementation studies on cloud computing from an end-to-end approach, including the latest industrial works and extensive research studies of cloud computing. This handbook enumerates deep dive and systemic studies of cloud computing from architecture to implementation. This book is a comprehensive publication ideal for programmers, IT professionals, students, researchers, and engineers.

Fog and Edge Computing Rajkumar Buyya,Satish Narayana Srirama.2019-01-30 A comprehensive guide to Fog and Edge applications, architectures, and technologies Recent years have seen the explosive growth of the Internet of Things (IoT): the internet-connected network of devices that includes everything from personal electronics and home appliances to automobiles and industrial machinery. Responding to the ever-increasing bandwidth demands of the IoT, Fog and Edge computing concepts have developed to collect, analyze, and process data more efficiently than traditional cloud architecture. Fog and Edge Computing: Principles and Paradigms provides a comprehensive overview of the state-of-the-art applications and architectures driving this dynamic field of computing while highlighting potential research directions and emerging technologies. Exploring topics such as developing scalable architectures, moving from closed systems to open

systems, and ethical issues rising from data sensing, this timely book addresses both the challenges and opportunities that Fog and Edge computing presents. Contributions from leading IoT experts discuss federating Edge resources, middleware design issues, data management and predictive analysis, smart transportation and surveillance applications, and more. A coordinated and integrated presentation of topics helps readers gain thorough knowledge of the foundations, applications, and issues that are central to Fog and Edge computing. This valuable resource: Provides insights on transitioning from current Cloud-centric and 4G/5G wireless environments to Fog Computing Examines methods to optimize virtualized, pooled, and shared resources Identifies potential technical challenges and offers suggestions for possible solutions Discusses major components of Fog and Edge computing architectures such as middleware, interaction protocols, and autonomic management Includes access to a website portal for advanced online resources Fog and Edge Computing: Principles and Paradigms is an essential source of up-to-date information for systems architects, developers, researchers, and advanced undergraduate and graduate students in fields of computer science and engineering.

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